ANALYTICAL REPORT

Job Number: 680-91719-1

SDG Number: 68091719-1

Job Description: 35th Avenue Superfund Site

For:
Oneida Total Integrated Enterprises LLC
1220 Kennestone Circle
Suite 106
Marietta, GA 30060

Attention: Ms. Limari F Krebs

Approved for release.
Lisa M Harvey
Project Manager II
7/9/2013 10:56 AM

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07/09/2013

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CASE NARRATIVE
Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-91719-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 06/26/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.7 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1363AB-GS (680-91719-1), CV1363AC-GS (680-91719-2), CV1363AD-GS (680-91719-3), CV1363A-CS (680-91719-4), CV1363A-CSD (680-91719-5), CV1363B-CS (680-91719-6), CV1363C-CS (680-91719-7), CV1363D-CS (680-91719-8), CV1363E-CS (680-91719-9), CV1363F-CS (680-91719-10), CV1363G-CS (680-91719-11), CV1363G-CSD (680-91719-12), CV1363H-CS (680-91719-13), CV1363I-CS (680-91719-14), CV1363J-CS (680-91719-15), CV1363J-CSD (680-91719-16), CV1363K-CS (680-91719-17), CV1363L-CS (680-91719-18), CV1363M-CS (680-91719-19) and CV1363N-CS (680-91719-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C.

Method(s) 8270C LL: The following samples were diluted due to the nature of the sample matrix: CV1363AB-GS (680-91719-1), CV1363A-CS (680-91719-4), CV1363B-CS (680-91719-6), CV1363AB-GS (680-91719-1 MS), CV1363AB-GS (680-91719-1 MSD). Elevated reporting limits (RL) are provided. Batch: 139030.

Method(s) 8270C LL: Samples CV1363A-CSD (680-91719-5) were requested as client-specified duplicates. The parent sample was analyzed at a dilution due to the color of the extract while the duplicate was analyzed straight, as the extract was lighter. Each sample was extracted from its own sample container, so the duplicates could be non-homogeneous. Batch: 139030.

Method(s) 8270C LL: The matrix spike/matrix spike duplicate (MS/MSD) recoveries associated with batch 139030 were outside control limits: CV1363AB-GS (680-91719-1 MS), CV1363AB-GS (680-91719-1 MSD). The recoveries were biased low. Matrix interference is suspected. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8270C LL: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 139084 were outside control limits. This is attributed to non-homogeneity of the sample matrix and matrix interferences. The data has been qualified and reported.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-91719-1
Sdg Number: 68091719-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-91719-1	CV1363AB-GS	Solid	06/24/2013 1245	06/26/2013 0835
680-91719-1MS	CV1363AB-GS	Solid	06/24/2013 1245	06/26/2013 0835
680-91719-1MSD	CV1363AB-GS	Solid	06/24/2013 1245	06/26/2013 0835
680-91719-2	CV1363AC-GS	Solid	06/24/2013 1350	06/26/2013 0835
680-91719-3	CV1363AD-GS	Solid	06/24/2013 1405	06/26/2013 0835
680-91719-4	CV1363A-CS	Solid	06/24/2013 1300	06/26/2013 0835
680-91719-5	CV1363A-CSD	Solid	06/24/2013 1300	06/26/2013 0835
680-91719-6	CV1363B-CS	Solid	06/24/2013 1301	06/26/2013 0835
680-91719-7	CV1363C-CS	Solid	06/24/2013 1309	06/26/2013 0835
680-91719-8	CV1363D-CS	Solid	06/24/2013 1328	06/26/2013 0835
680-91719-9	CV1363E-CS	Solid	06/24/2013 1356	06/26/2013 0835
680-91719-10	CV1363F-CS	Solid	06/24/2013 1407	06/26/2013 0835
680-91719-11	CV1363G-CS	Solid	06/24/2013 1424	06/26/2013 0835
680-91719-12	CV1363G-CSD	Solid	06/24/2013 1424	06/26/2013 0835
680-91719-13	CV1363H-CS	Solid	06/25/2013 0755	06/26/2013 0835
680-91719-14	CV1363I-CS	Solid	06/25/2013 0751	06/26/2013 0835
680-91719-15	CV1363J-CS	Solid	06/25/2013 0803	06/26/2013 0835
680-91719-16	CV1363J-CSD	Solid	06/25/2013 0803	06/26/2013 0835
680-91719-17	CV1363K-CS	Solid	06/25/2013 0819	06/26/2013 0835
680-91719-18	CV1363L-CS	Solid	06/25/2013 0848	06/26/2013 0835
680-91719-19	CV1363M-CS	Solid	06/25/2013 0920	06/26/2013 0835
680-91719-20	CV1363N-CS	Solid	06/25/2013 0935	06/26/2013 0835

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-91719-1
Sdg Number: 68091719-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds by GCMS - Low Levels	TAL TAM	SW846 8270C LL	
Microwave Extraction	TAL TAM		SW846 3546
Percent Moisture	TAL TAM	EPA Moisture	

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-91719-1
Sdg Number: 68091719-1

Method	Analyst	Analyst ID
SW846 8270C LL	Cantin, Stephen C	SCC
EPA Moisture	Galio, Andrew	AJG

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-91719-1
Sdg Number: 68091719-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-91719-1
Sdg Number: 68091719-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-138994					
LCS 660-138994/2-A	Lab Control Sample	T	Solid	3546	
MB 660-138994/1-A	Method Blank	T	Solid	3546	
680-91719-1	CV1363AB-GS	T	Solid	3546	
680-91719-1MS	Matrix Spike	T	Solid	3546	
680-91719-1MSD	Matrix Spike Duplicate	T	Solid	3546	
680-91719-2	CV1363AC-GS	T	Solid	3546	
680-91719-3	CV1363AD-GS	T	Solid	3546	
680-91719-4	CV1363A-CS	T	Solid	3546	
680-91719-5	CV1363A-CSD	T	Solid	3546	
680-91719-6	CV1363B-CS	T	Solid	3546	
680-91719-7	CV1363C-CS	T	Solid	3546	
Prep Batch: 660-139005					
LCS 660-139005/2-A	Lab Control Sample	T	Solid	3546	
MB 660-139005/1-A	Method Blank	T	Solid	3546	
680-91719-8	CV1363D-CS	T	Solid	3546	
680-91719-9	CV1363E-CS	T	Solid	3546	
680-91719-10	CV1363F-CS	T	Solid	3546	
680-91719-11	CV1363G-CS	T	Solid	3546	
680-91719-12	CV1363G-CSD	T	Solid	3546	
680-91719-13	CV1363H-CS	T	Solid	3546	
680-91719-14	CV1363I-CS	T	Solid	3546	
680-91719-15	CV1363J-CS	T	Solid	3546	
680-91719-16	CV1363J-CSD	T	Solid	3546	
680-91719-A-21-B MS	Matrix Spike	T	Solid	3546	
680-91719-A-21-C MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:660-139030					
LCS 660-138994/2-A	Lab Control Sample	T	Solid	8270C LL	660-138994
MB 660-138994/1-A	Method Blank	T	Solid	8270C LL	660-138994
680-91719-1	CV1363AB-GS	T	Solid	8270C LL	660-138994
680-91719-1MS	Matrix Spike	T	Solid	8270C LL	660-138994
680-91719-1MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-138994
680-91719-2	CV1363AC-GS	T	Solid	8270C LL	660-138994
680-91719-3	CV1363AD-GS	T	Solid	8270C LL	660-138994
680-91719-4	CV1363A-CS	T	Solid	8270C LL	660-138994
680-91719-5	CV1363A-CSD	T	Solid	8270C LL	660-138994
680-91719-6	CV1363B-CS	T	Solid	8270C LL	660-138994
680-91719-7	CV1363C-CS	T	Solid	8270C LL	660-138994

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-91719-1
Sdg Number: 68091719-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-139049					
LCS 660-139049/2-A	Lab Control Sample	T	Solid	3546	
MB 660-139049/1-A	Method Blank	T	Solid	3546	
680-91719-17	CV1363K-CS	T	Solid	3546	
680-91719-17MS	Matrix Spike	T	Solid	3546	
680-91719-17MSD	Matrix Spike Duplicate	T	Solid	3546	
680-91719-18	CV1363L-CS	T	Solid	3546	
680-91719-19	CV1363M-CS	T	Solid	3546	
680-91719-20	CV1363N-CS	T	Solid	3546	
Analysis Batch:660-139084					
LCS 660-139005/2-A	Lab Control Sample	T	Solid	8270C LL	660-139005
MB 660-139005/1-A	Method Blank	T	Solid	8270C LL	660-139005
LCS 660-139049/2-A	Lab Control Sample	T	Solid	8270C LL	660-139049
MB 660-139049/1-A	Method Blank	T	Solid	8270C LL	660-139049
680-91719-8	CV1363D-CS	T	Solid	8270C LL	660-139005
680-91719-9	CV1363E-CS	T	Solid	8270C LL	660-139005
680-91719-10	CV1363F-CS	T	Solid	8270C LL	660-139005
680-91719-11	CV1363G-CS	T	Solid	8270C LL	660-139005
680-91719-12	CV1363G-CSD	T	Solid	8270C LL	660-139005
680-91719-13	CV1363H-CS	T	Solid	8270C LL	660-139005
680-91719-14	CV1363I-CS	T	Solid	8270C LL	660-139005
680-91719-15	CV1363J-CS	T	Solid	8270C LL	660-139005
680-91719-16	CV1363J-CSD	T	Solid	8270C LL	660-139005
680-91719-17	CV1363K-CS	T	Solid	8270C LL	660-139049
680-91719-17MS	Matrix Spike	T	Solid	8270C LL	660-139049
680-91719-17MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-139049
680-91719-A-21-B MS	Matrix Spike	T	Solid	8270C LL	660-139005
680-91719-A-21-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-139005
Analysis Batch:660-139145					
680-91719-18	CV1363L-CS	T	Solid	8270C LL	660-139049
680-91719-19	CV1363M-CS	T	Solid	8270C LL	660-139049
680-91719-20	CV1363N-CS	T	Solid	8270C LL	660-139049

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-91719-1
Sdg Number: 68091719-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-138912					
680-91719-1	CV1363AB-GS	T	Solid	Moisture	
680-91719-1MS	Matrix Spike	T	Solid	Moisture	
680-91719-1MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-91719-2	CV1363AC-GS	T	Solid	Moisture	
680-91719-3	CV1363AD-GS	T	Solid	Moisture	
680-91719-4	CV1363A-CS	T	Solid	Moisture	
680-91719-5	CV1363A-CSD	T	Solid	Moisture	
680-91719-6	CV1363B-CS	T	Solid	Moisture	
680-91719-7	CV1363C-CS	T	Solid	Moisture	
680-91719-8	CV1363D-CS	T	Solid	Moisture	
680-91719-9	CV1363E-CS	T	Solid	Moisture	
680-91719-10	CV1363F-CS	T	Solid	Moisture	
680-91719-11	CV1363G-CS	T	Solid	Moisture	
680-91719-12	CV1363G-CSD	T	Solid	Moisture	
680-91719-13	CV1363H-CS	T	Solid	Moisture	
680-91719-14	CV1363I-CS	T	Solid	Moisture	
680-91719-15	CV1363J-CS	T	Solid	Moisture	
680-91719-16	CV1363J-CSD	T	Solid	Moisture	
680-91719-17	CV1363K-CS	T	Solid	Moisture	
680-91719-18	CV1363L-CS	T	Solid	Moisture	
680-91719-19	CV1363M-CS	T	Solid	Moisture	
680-91719-20	CV1363N-CS	T	Solid	Moisture	
680-91719-A-21 MS	Matrix Spike	T	Solid	Moisture	
680-91719-A-21 MSD	Matrix Spike Duplicate	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Instrument ID: BSMA5973 Analysis Batch Number: 138314

Lab Sample ID: IC 660-138314/5 Client Sample ID:

Date Analyzed: 06/11/13 14:58 Lab File ID: 1AF11005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibenz(a,h)anthracene	8.73	Baseline Event	cantins	06/11/13 15:17

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Instrument ID: BSMA5973 Analysis Batch Number: 139030

Lab Sample ID: 680-91719-1 Client Sample ID: CV1363AB-GS

Date Analyzed: 07/02/13 20:46 Lab File ID: 1AG02039.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.58	Split Peak	cantins	07/03/13 15:50
Benzo[k]fluoranthene	7.59	Baseline Event	cantins	07/03/13 15:50
Indeno[1,2,3-cd]pyrene	8.72	Split Peak	cantins	07/03/13 15:50

Lab Sample ID: 680-91719-1 MS Client Sample ID: CV1363AB-GS MS

Date Analyzed: 07/02/13 21:01 Lab File ID: 1AG02040.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.72	Split Peak	cantins	07/03/13 15:51

Lab Sample ID: 680-91719-1 MSD Client Sample ID: CV1363AB-GS MSD

Date Analyzed: 07/02/13 21:16 Lab File ID: 1AG02041.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.73	Split Peak	cantins	07/03/13 15:52

Lab Sample ID: 680-91719-2 Client Sample ID: CV1363AC-GS

Date Analyzed: 07/02/13 21:31 Lab File ID: 1AG02042.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.59	Split Peak	cantins	07/03/13 15:53
Benzo[k]fluoranthene	7.60	Baseline Event	cantins	07/03/13 15:53
Indeno[1,2,3-cd]pyrene	8.75	Split Peak	cantins	07/03/13 15:54

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Instrument ID: BSMA5973 Analysis Batch Number: 139030

Lab Sample ID: 680-91719-3 Client Sample ID: CV1363AD-GS

Date Analyzed: 07/02/13 21:46 Lab File ID: 1AG02043.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.60	Split Peak	cantins	07/03/13 15:55
Benzo[k]fluoranthene	7.62	Baseline Event	cantins	07/03/13 15:55
Indeno[1,2,3-cd]pyrene	8.77	Split Peak	cantins	07/03/13 15:55

Lab Sample ID: 680-91719-4 Client Sample ID: CV1363A-CS

Date Analyzed: 07/02/13 22:02 Lab File ID: 1AG02044.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.60	Split Peak	cantins	07/03/13 15:57
Benzo[k]fluoranthene	7.61	Baseline Event	cantins	07/03/13 15:58
Indeno[1,2,3-cd]pyrene	8.74	Split Peak	cantins	07/03/13 15:58

Lab Sample ID: 680-91719-5 Client Sample ID: CV1363A-CSD

Date Analyzed: 07/02/13 22:17 Lab File ID: 1AG02045.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.60	Split Peak	cantins	07/03/13 15:59
Benzo[k]fluoranthene	7.61	Baseline Event	cantins	07/03/13 15:59
Indeno[1,2,3-cd]pyrene	8.75	Split Peak	cantins	07/03/13 15:59

Lab Sample ID: 680-91719-6 Client Sample ID: CV1363B-CS

Date Analyzed: 07/02/13 22:32 Lab File ID: 1AG02046.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.60	Split Peak	cantins	07/03/13 16:01
Benzo[k]fluoranthene	7.61	Baseline Event	perrint	07/03/13 16:01
Indeno[1,2,3-cd]pyrene	8.74	Split Peak	cantins	07/03/13 16:02

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Instrument ID: BSMA5973 Analysis Batch Number: 139030

Lab Sample ID: 680-91719-7 Client Sample ID: CV1363C-CS

Date Analyzed: 07/02/13 22:47 Lab File ID: 1AG02047.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.60	Split Peak	cantins	07/03/13 16:03
Benzo[k]fluoranthene	7.61	Baseline Event	cantins	07/03/13 16:03
Indeno[1,2,3-cd]pyrene	8.76	Split Peak	cantins	07/03/13 16:04

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Instrument ID: BSMA5973 Analysis Batch Number: 139084

Lab Sample ID: 680-91719-A-21-B MS Client Sample ID:

Date Analyzed: 07/03/13 15:39 Lab File ID: 1AG03020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.79	Split Peak	cantins	07/08/13 10:34

Lab Sample ID: 680-91719-A-21-C MSD Client Sample ID:

Date Analyzed: 07/03/13 15:54 Lab File ID: 1AG03021.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.80	Split Peak	cantins	07/08/13 10:35

Lab Sample ID: LCS 660-139049/2-A Client Sample ID:

Date Analyzed: 07/03/13 16:24 Lab File ID: 1AG03023.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.75	Split Peak	cantins	07/05/13 10:59

Lab Sample ID: 680-91719-17 Client Sample ID: CV1363K-CS

Date Analyzed: 07/03/13 16:55 Lab File ID: 1AG03025.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.61	Split Peak	cantins	07/05/13 11:01
Benzo[k]fluoranthene	7.62	Baseline Event	cantins	07/05/13 11:01
Indeno[1,2,3-cd]pyrene	8.78	Split Peak	cantins	07/05/13 11:01

Lab Sample ID: 680-91719-17 MS Client Sample ID: CV1363K-CS MS

Date Analyzed: 07/03/13 17:10 Lab File ID: 1AG03026.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.79	Split Peak	cantins	07/05/13 11:02

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Instrument ID: BSMA5973 Analysis Batch Number: 139084

Lab Sample ID: 680-91719-17 MSD Client Sample ID: CV1363K-CS MSD

Date Analyzed: 07/03/13 17:25 Lab File ID: 1AG03027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.80	Split Peak	cantins	07/05/13 11:03

Lab Sample ID: 680-91719-8 Client Sample ID: CV1363D-CS

Date Analyzed: 07/03/13 17:40 Lab File ID: 1AG03028.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.64	Split Peak	cantins	07/08/13 10:40
Benzo[k]fluoranthene	7.65	Baseline Event	cantins	07/08/13 10:41
Indeno[1,2,3-cd]pyrene	8.82	Split Peak	cantins	07/08/13 10:41

Lab Sample ID: 680-91719-9 Client Sample ID: CV1363E-CS

Date Analyzed: 07/03/13 17:55 Lab File ID: 1AG03029.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.64	Split Peak	cantins	07/08/13 10:42
Benzo[k]fluoranthene	7.65	Baseline Event	cantins	07/08/13 10:42
Indeno[1,2,3-cd]pyrene	8.82	Split Peak	cantins	07/08/13 10:42

Lab Sample ID: 680-91719-10 Client Sample ID: CV1363F-CS

Date Analyzed: 07/03/13 18:10 Lab File ID: 1AG03030.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.64	Split Peak	cantins	07/08/13 10:43
Benzo[k]fluoranthene	7.65	Baseline Event	cantins	07/08/13 10:43
Indeno[1,2,3-cd]pyrene	8.82	Split Peak	cantins	07/08/13 10:44

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Instrument ID: BSMA5973 Analysis Batch Number: 139084

Lab Sample ID: 680-91719-11 Client Sample ID: CV1363G-CS

Date Analyzed: 07/03/13 18:25 Lab File ID: 1AG03031.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.64	Split Peak	cantins	07/08/13 10:45
Benzo[k]fluoranthene	7.65	Baseline Event	cantins	07/08/13 10:45
Indeno[1,2,3-cd]pyrene	8.82	Split Peak	cantins	07/08/13 10:45

Lab Sample ID: 680-91719-12 Client Sample ID: CV1363G-CSD

Date Analyzed: 07/03/13 18:40 Lab File ID: 1AG03032.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.64	Split Peak	cantins	07/08/13 10:46
Benzo[k]fluoranthene	7.65	Baseline Event	cantins	07/08/13 10:47
Indeno[1,2,3-cd]pyrene	8.83	Split Peak	cantins	07/08/13 10:47

Lab Sample ID: 680-91719-13 Client Sample ID: CV1363H-CS

Date Analyzed: 07/03/13 18:55 Lab File ID: 1AG03033.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.64	Split Peak	cantins	07/08/13 10:48
Benzo[k]fluoranthene	7.65	Baseline Event	cantins	07/08/13 10:48
Indeno[1,2,3-cd]pyrene	8.83	Split Peak	cantins	07/08/13 10:49

Lab Sample ID: 680-91719-14 Client Sample ID: CV1363I-CS

Date Analyzed: 07/03/13 19:10 Lab File ID: 1AG03034.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.65	Split Peak	cantins	07/08/13 10:50
Benzo[k]fluoranthene	7.66	Baseline Event	cantins	07/08/13 10:50
Indeno[1,2,3-cd]pyrene	8.83	Split Peak	cantins	07/08/13 10:51

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Instrument ID: BSMA5973 Analysis Batch Number: 139084

Lab Sample ID: 680-91719-15 Client Sample ID: CV1363J-CS

Date Analyzed: 07/03/13 19:25 Lab File ID: 1AG03035.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.65	Split Peak	cantins	07/08/13 10:52
Benzo[k]fluoranthene	7.66	Baseline Event	cantins	07/08/13 10:52
Indeno[1,2,3-cd]pyrene	8.83	Split Peak	cantins	07/08/13 10:53

Lab Sample ID: 680-91719-16 Client Sample ID: CV1363J-CSD

Date Analyzed: 07/03/13 19:40 Lab File ID: 1AG03036.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.65	Split Peak	cantins	07/08/13 10:54
Benzo[k]fluoranthene	7.66	Baseline Event	cantins	07/08/13 10:54
Indeno[1,2,3-cd]pyrene	8.84	Split Peak	cantins	07/08/13 10:54

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Instrument ID: BSMA5973 Analysis Batch Number: 139145

Lab Sample ID: IC 660-139145/9 Client Sample ID:

Date Analyzed: 07/07/13 14:46 Lab File ID: 1AG07008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.67	Split Peak	cantins	07/08/13 11:40

Lab Sample ID: 680-91719-18 Client Sample ID: CV1363L-CS

Date Analyzed: 07/07/13 17:54 Lab File ID: 1AG07018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.57	Split Peak	cantins	07/08/13 12:03
Benzo[k]fluoranthene	7.58	Baseline Event	cantins	07/08/13 12:03
Indeno[1,2,3-cd]pyrene	8.70	Split Peak	cantins	07/08/13 12:03

Lab Sample ID: 680-91719-19 Client Sample ID: CV1363M-CS

Date Analyzed: 07/07/13 18:09 Lab File ID: 1AG07019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.58	Split Peak	cantins	07/08/13 12:04
Benzo[k]fluoranthene	7.59	Baseline Event	cantins	07/08/13 12:04
Indeno[1,2,3-cd]pyrene	8.72	Split Peak	cantins	07/08/13 12:04

Lab Sample ID: 680-91719-20 Client Sample ID: CV1363N-CS

Date Analyzed: 07/07/13 18:24 Lab File ID: 1AG07020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.58	Split Peak	cantins	07/08/13 12:04
Benzo[k]fluoranthene	7.59	Baseline Event	cantins	07/08/13 12:05
Indeno[1,2,3-cd]pyrene	8.71	Split Peak	cantins	07/08/13 12:05

Method 8270C Low Level

Semivolatile Organic Compounds (GC/MS) Low Level by Method 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Matrix: Solid Level: Low

GC Column (1): DB-5MS ID: 250 (um)

Client Sample ID	Lab Sample ID	OTPH #
CV1363AB-GS	680-91719-1	36
CV1363AC-GS	680-91719-2	34
CV1363AD-GS	680-91719-3	38
CV1363A-CS	680-91719-4	47
CV1363A-CSD	680-91719-5	36
CV1363B-CS	680-91719-6	45
CV1363C-CS	680-91719-7	46
CV1363D-CS	680-91719-8	55
CV1363E-CS	680-91719-9	47
CV1363F-CS	680-91719-10	41
CV1363G-CS	680-91719-11	39
CV1363G-CSD	680-91719-12	45
CV1363H-CS	680-91719-13	43
CV1363I-CS	680-91719-14	45
CV1363J-CS	680-91719-15	42
CV1363J-CSD	680-91719-16	40
CV1363K-CS	680-91719-17	45
CV1363L-CS	680-91719-18	56
CV1363M-CS	680-91719-19	60
CV1363N-CS	680-91719-20	59
	MB 660-138994/1-A	46
	MB 660-139005/1-A	50
	MB 660-139049/1-A	60
	LCS 660-138994/2-A	57
	LCS 660-139005/2-A	54
	LCS 660-139049/2-A	58
	680-91719-A-21-B MS	45
CV1363AB-GS MS	680-91719-1 MS	34
CV1363K-CS MS	680-91719-17 MS	47
	680-91719-A-21-C MSD	42
CV1363AB-GS MSD	680-91719-1 MSD	37

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Matrix: Solid Level: Low

GC Column (1): DB-5MS ID: 250 (um)

Client Sample ID	Lab Sample ID	OTPH #
CV1363K-CS MSD	680-91719-17 MSD	52

	QC LIMITS
OTPH = o-Terphenyl	30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Matrix: Solid Level: Low Lab File ID: 1AG02025.D

Lab ID: LCS 660-138994/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	670	326	49	39-130	
Acenaphthylene	670	309	46	38-130	
Anthracene	670	355	53	37-130	
Benzo[a]anthracene	670	406	61	40-130	
Benzo[a]pyrene	670	409	61	49-130	
Benzo[b]fluoranthene	670	391	58	37-130	
Benzo[g,h,i]perylene	670	471	70	32-130	
Benzo[k]fluoranthene	670	388	58	32-130	
Chrysene	670	400	60	41-130	
Dibenz(a,h)anthracene	670	465	69	27-130	
Fluoranthene	670	366	55	40-130	
Fluorene	670	334	50	40-130	
Indeno[1,2,3-cd]pyrene	670	520	78	30-130	
1-Methylnaphthalene	670	383	57	31-130	
2-Methylnaphthalene	670	400	60	33-130	
Naphthalene	670	432	64	36-130	
Phenanthrene	670	358	53	42-130	
Pyrene	670	395	59	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Matrix: Solid Level: Low Lab File ID: 1AG03006.D

Lab ID: LCS 660-139005/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	668	307	46	39-130	
Acenaphthylene	668	283	42	38-130	
Anthracene	668	340	51	37-130	
Benzo[a]anthracene	668	386	58	40-130	
Benzo[a]pyrene	668	368	55	49-130	
Benzo[b]fluoranthene	668	364	55	37-130	
Benzo[g,h,i]perylene	668	344	51	32-130	
Benzo[k]fluoranthene	668	345	52	32-130	
Chrysene	668	361	54	41-130	
Dibenz(a,h)anthracene	668	357	53	27-130	
Fluoranthene	668	341	51	40-130	
Fluorene	668	306	46	40-130	
Indeno[1,2,3-cd]pyrene	668	395	59	30-130	
1-Methylnaphthalene	668	356	53	31-130	
2-Methylnaphthalene	668	363	54	33-130	
Naphthalene	668	399	60	36-130	
Phenanthrene	668	346	52	42-130	
Pyrene	668	351	53	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Matrix: Solid Level: Low Lab File ID: 1AG03023.D

Lab ID: LCS 660-139049/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	660	322	49	39-130	
Acenaphthylene	660	311	47	38-130	
Anthracene	660	376	57	37-130	
Benzo[a]anthracene	660	462	70	40-130	
Benzo[a]pyrene	660	393	59	49-130	
Benzo[b]fluoranthene	660	450	68	37-130	
Benzo[g,h,i]perylene	660	225	34	32-130	
Benzo[k]fluoranthene	660	412	62	32-130	
Chrysene	660	403	61	41-130	
Dibenz(a,h)anthracene	660	293	44	27-130	
Fluoranthene	660	389	59	40-130	
Fluorene	660	339	51	40-130	
Indeno[1,2,3-cd]pyrene	660	314	48	30-130	
1-Methylnaphthalene	660	402	61	31-130	
2-Methylnaphthalene	660	406	62	33-130	
Naphthalene	660	450	68	36-130	
Phenanthrene	660	379	57	42-130	
Pyrene	660	329	50	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Matrix: Solid Level: Low Lab File ID: 1AG03020.D

Lab ID: 680-91719-A-21-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	754	120 U	342	45	39-130	
Acenaphthylene	754	64	340	37	38-130	F
Anthracene	754	120	502	50	37-130	
Benzo[a]anthracene	754	350	848	66	40-130	
Benzo[a]pyrene	754	340	763	56	49-130	
Benzo[b]fluoranthene	754	630	1370	99	37-130	
Benzo[g,h,i]perylene	754	170	378	28	32-130	F
Benzo[k]fluoranthene	754	180	481	39	32-130	
Chrysene	754	440	944	67	41-130	
Dibenz(a,h)anthracene	754	62	333	36	27-130	
Fluoranthene	754	720	1490	102	40-130	
Fluorene	754	23 U	340	45	40-130	
Indeno[1,2,3-cd]pyrene	754	190	496	41	30-130	
1-Methylnaphthalene	754	91	469	50	31-130	
2-Methylnaphthalene	754	140	520	50	33-130	
Naphthalene	754	180	584	54	36-130	
Phenanthrene	754	380	1040	88	42-130	
Pyrene	754	460	905	59	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Matrix: Solid Level: Low Lab File ID: 1AG02040.D

Lab ID: 680-91719-1 MS Client ID: CV1363AB-GS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	957	570 U	331 J	35	39-130	F
Acenaphthylene	957	130 J	344	36	38-130	F
Anthracene	957	150	427	45	37-130	
Benzo[a]anthracene	957	200	550	37	40-130	F
Benzo[a]pyrene	957	220	533	33	49-130	F
Benzo[b]fluoranthene	957	390	749	37	37-130	
Benzo[g,h,i]perylene	957	200	456	27	32-130	F
Benzo[k]fluoranthene	957	220	494	29	32-130	F
Chrysene	957	340	691	37	41-130	F
Dibenz(a,h)anthracene	957	70 J	384	33	27-130	
Fluoranthene	957	370	662	31	40-130	F
Fluorene	957	110 U	357	37	40-130	F
Indeno[1,2,3-cd]pyrene	957	200	506	32	30-130	
1-Methylnaphthalene	957	160 J	445	46	31-130	
2-Methylnaphthalene	957	210 J	480	28	33-130	F
Naphthalene	957	200 J	538	36	36-130	
Phenanthrene	957	310	582	28	42-130	F
Pyrene	957	250	509	27	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Matrix: Solid Level: Low Lab File ID: 1AG03026.D

Lab ID: 680-91719-17 MS Client ID: CV1363K-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	744	110 U	315	42	39-130	
Acenaphthylene	744	46	311	36	38-130	F
Anthracene	744	85	383	40	37-130	
Benzo[a]anthracene	744	230	546	42	40-130	
Benzo[a]pyrene	744	230	506	37	49-130	F
Benzo[b]fluoranthene	744	380	836	62	37-130	
Benzo[g,h,i]perylene	744	110	262	20	32-130	F
Benzo[k]fluoranthene	744	150	393	33	32-130	
Chrysene	744	280	604	44	41-130	
Dibenz(a,h)anthracene	744	40	289	33	27-130	
Fluoranthene	744	470	720	34	40-130	F
Fluorene	744	22 U	304	41	40-130	
Indeno[1,2,3-cd]pyrene	744	120	333	29	30-130	F
1-Methylnaphthalene	744	68	402	45	31-130	
2-Methylnaphthalene	744	74	427	47	33-130	
Naphthalene	744	61	448	52	36-130	
Phenanthrene	744	290	551	35	42-130	F
Pyrene	744	290	492	27	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Matrix: Solid Level: Low Lab File ID: 1AG03021.D

Lab ID: 680-91719-A-21-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	768	336	44	2	40	39-130	
Acenaphthylene	768	345	37	2	40	38-130	F
Anthracene	768	565	57	12	40	37-130	
Benzo[a]anthracene	768	1040	90	20	40	40-130	
Benzo[a]pyrene	768	919	75	19	40	49-130	
Benzo[b]fluoranthene	768	1430	104	4	40	37-130	
Benzo[g,h,i]perylene	768	413	32	9	40	32-130	
Benzo[k]fluoranthene	768	744	73	43	40	32-130	F
Chrysene	768	1050	80	10	40	41-130	
Dibenz(a,h)anthracene	768	393	43	16	40	27-130	
Fluoranthene	768	2060	174	32	40	40-130	F
Fluorene	768	347	45	2	40	40-130	
Indeno[1,2,3-cd]pyrene	768	536	45	8	40	30-130	
1-Methylnaphthalene	768	484	51	3	40	31-130	
2-Methylnaphthalene	768	551	53	6	40	33-130	
Naphthalene	768	600	55	3	40	36-130	
Phenanthrene	768	1290	119	21	40	42-130	
Pyrene	768	1130	88	22	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Matrix: Solid Level: Low Lab File ID: 1AG02041.D

Lab ID: 680-91719-1 MSD Client ID: CV1363AB-GS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	957	352 J	37	6	40	39-130	F
Acenaphthylene	957	363	38	5	40	38-130	
Anthracene	957	451	47	5	40	37-130	
Benzo[a]anthracene	957	591	41	7	40	40-130	
Benzo[a]pyrene	957	577	38	8	40	49-130	F
Benzo[b]fluoranthene	957	914	54	20	40	37-130	
Benzo[g,h,i]perylene	957	450	26	1	40	32-130	F
Benzo[k]fluoranthene	957	447	24	10	40	32-130	F
Chrysene	957	743	43	7	40	41-130	
Dibenz(a,h)anthracene	957	377	32	2	40	27-130	
Fluoranthene	957	731	38	10	40	40-130	F
Fluorene	957	380	40	6	40	40-130	
Indeno[1,2,3-cd]pyrene	957	539	36	6	40	30-130	
1-Methylnaphthalene	957	469	49	5	40	31-130	
2-Methylnaphthalene	957	502	31	4	40	33-130	F
Naphthalene	957	547	37	2	40	36-130	
Phenanthrene	957	633	33	8	40	42-130	F
Pyrene	957	558	32	9	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Matrix: Solid Level: Low Lab File ID: 1AG03027.D

Lab ID: 680-91719-17 MSD Client ID: CV1363K-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	744	340	46	8	40	39-130	
Acenaphthylene	744	340	40	9	40	38-130	
Anthracene	744	467	51	20	40	37-130	
Benzo[a]anthracene	744	811	77	39	40	40-130	
Benzo[a]pyrene	744	773	73	42	40	49-130	F
Benzo[b]fluoranthene	744	1350	131	47	40	37-130	F
Benzo[g,h,i]perylene	744	353	33	30	40	32-130	
Benzo[k]fluoranthene	744	518	50	27	40	32-130	
Chrysene	744	925	87	42	40	41-130	F
Dibenz(a,h)anthracene	744	350	42	19	40	27-130	
Fluoranthene	744	1430	129	66	40	40-130	F
Fluorene	744	335	45	10	40	40-130	
Indeno[1,2,3-cd]pyrene	744	449	45	30	40	30-130	
1-Methylnaphthalene	744	483	56	18	40	31-130	
2-Methylnaphthalene	744	539	62	23	40	33-130	
Naphthalene	744	524	62	16	40	36-130	
Phenanthrene	744	838	74	41	40	42-130	F
Pyrene	744	798	68	47	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Lab File ID: 1AG02024.D Lab Sample ID: MB 660-138994/1-A

Matrix: Solid Date Extracted: 07/01/2013 13:43

Instrument ID: BSMA5973 Date Analyzed: 07/02/2013 17:00

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-138994/2-A	1AG02025.D	07/02/2013 17:16
CV1363AB-GS	680-91719-1	1AG02039.D	07/02/2013 20:46
CV1363AB-GS MS	680-91719-1 MS	1AG02040.D	07/02/2013 21:01
CV1363AB-GS MSD	680-91719-1 MSD	1AG02041.D	07/02/2013 21:16
CV1363AC-GS	680-91719-2	1AG02042.D	07/02/2013 21:31
CV1363AD-GS	680-91719-3	1AG02043.D	07/02/2013 21:46
CV1363A-CS	680-91719-4	1AG02044.D	07/02/2013 22:02
CV1363A-CSD	680-91719-5	1AG02045.D	07/02/2013 22:17
CV1363B-CS	680-91719-6	1AG02046.D	07/02/2013 22:32
CV1363C-CS	680-91719-7	1AG02047.D	07/02/2013 22:47

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Lab File ID: 1AG03005.D Lab Sample ID: MB 660-139005/1-A

Matrix: Solid Date Extracted: 07/02/2013 07:50

Instrument ID: BSMA5973 Date Analyzed: 07/03/2013 11:53

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-139005/2-A	1AG03006.D	07/03/2013 12:08
	680-91719-A-21-B MS	1AG03020.D	07/03/2013 15:39
	680-91719-A-21-C MSD	1AG03021.D	07/03/2013 15:54
CV1363D-CS	680-91719-8	1AG03028.D	07/03/2013 17:40
CV1363E-CS	680-91719-9	1AG03029.D	07/03/2013 17:55
CV1363F-CS	680-91719-10	1AG03030.D	07/03/2013 18:10
CV1363G-CS	680-91719-11	1AG03031.D	07/03/2013 18:25
CV1363G-CSD	680-91719-12	1AG03032.D	07/03/2013 18:40
CV1363H-CS	680-91719-13	1AG03033.D	07/03/2013 18:55
CV1363I-CS	680-91719-14	1AG03034.D	07/03/2013 19:10
CV1363J-CS	680-91719-15	1AG03035.D	07/03/2013 19:25
CV1363J-CSD	680-91719-16	1AG03036.D	07/03/2013 19:40

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Lab File ID: 1AG03022.D Lab Sample ID: MB 660-139049/1-A

Matrix: Solid Date Extracted: 07/03/2013 07:27

Instrument ID: BSMA5973 Date Analyzed: 07/03/2013 16:09

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-139049/2-A	1AG03023.D	07/03/2013 16:24
CV1363K-CS	680-91719-17	1AG03025.D	07/03/2013 16:55
CV1363K-CS MS	680-91719-17 MS	1AG03026.D	07/03/2013 17:10
CV1363K-CS MSD	680-91719-17 MSD	1AG03027.D	07/03/2013 17:25
CV1363L-CS	680-91719-18	1AG07018.D	07/07/2013 17:54
CV1363M-CS	680-91719-19	1AG07019.D	07/07/2013 18:09
CV1363N-CS	680-91719-20	1AG07020.D	07/07/2013 18:24

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Lab File ID: 1AF11003.D DFTPP Injection Date: 06/11/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 14:14

Analysis Batch No.: 138314

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	30.0	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	28.0	
70	Less than 2.0 % of mass 69	0.5	(1.8)1
127	10.0 - 80.0 % of mass 198	38.7	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.5	
275	10.0 - 60.0 % of mass 198	24.8	
365	Greater than 1.0 % of mass 198	2.4	
441	Present but less than mass 443	12.4	
442	Greater than 50.0 % of mass 198	84.6	
443	15.0 - 24.0 % of mass 442	16.0	(18.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 660-138314/4	1AF11004.D	06/11/2013	14:27
	IC 660-138314/5	1AF11005.D	06/11/2013	14:58
	IC 660-138314/6	1AF11006.D	06/11/2013	15:13
	IC 660-138314/7	1AF11007.D	06/11/2013	15:28
	IC 660-138314/8	1AF11008.D	06/11/2013	15:43
	IC 660-138314/9	1AF11009.D	06/11/2013	15:58
	IC 660-138314/10	1AF11010.D	06/11/2013	16:13
	ICV 660-138314/11	1AF11011.D	06/11/2013	16:33

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Lab File ID: 1AG02002.D DFTPP Injection Date: 07/02/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 11:16

Analysis Batch No.: 139030

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	31.5	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	30.1	
70	Less than 2.0 % of mass 69	0.3	(1.0)1
127	10.0 - 80.0 % of mass 198	41.8	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.8	
275	10.0 - 60.0 % of mass 198	24.6	
365	Greater than 1.0 % of mass 198	2.8	
441	Present but less than mass 443	13.3	
442	Greater than 50.0 % of mass 198	91.5	
443	15.0 - 24.0 % of mass 442	17.7	(19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-139030/3	1AG02003.D	07/02/2013	11:29
	MB 660-138994/1-A	1AG02024.D	07/02/2013	17:00
	LCS 660-138994/2-A	1AG02025.D	07/02/2013	17:16
CV1363AB-GS	680-91719-1	1AG02039.D	07/02/2013	20:46
CV1363AB-GS MS	680-91719-1 MS	1AG02040.D	07/02/2013	21:01
CV1363AB-GS MSD	680-91719-1 MSD	1AG02041.D	07/02/2013	21:16
CV1363AC-GS	680-91719-2	1AG02042.D	07/02/2013	21:31
CV1363AD-GS	680-91719-3	1AG02043.D	07/02/2013	21:46
CV1363A-CS	680-91719-4	1AG02044.D	07/02/2013	22:02
CV1363A-CSD	680-91719-5	1AG02045.D	07/02/2013	22:17
CV1363B-CS	680-91719-6	1AG02046.D	07/02/2013	22:32
CV1363C-CS	680-91719-7	1AG02047.D	07/02/2013	22:47

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Lab File ID: 1AG03002.D DFTPP Injection Date: 07/03/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 11:08

Analysis Batch No.: 139084

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	41.0	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	37.5	
70	Less than 2.0 % of mass 69	0.3	(0.9)1
127	10.0 - 80.0 % of mass 198	44.4	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.5	
275	10.0 - 60.0 % of mass 198	23.1	
365	Greater than 1.0 % of mass 198	2.4	
441	Present but less than mass 443	9.9	
442	Greater than 50.0 % of mass 198	71.0	
443	15.0 - 24.0 % of mass 442	13.0	(18.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-139084/3	1AG03003.D	07/03/2013	11:21
	MB 660-139005/1-A	1AG03005.D	07/03/2013	11:53
	LCS 660-139005/2-A	1AG03006.D	07/03/2013	12:08
	680-91719-A-21-B MS	1AG03020.D	07/03/2013	15:39
	680-91719-A-21-C MSD	1AG03021.D	07/03/2013	15:54
	MB 660-139049/1-A	1AG03022.D	07/03/2013	16:09
	LCS 660-139049/2-A	1AG03023.D	07/03/2013	16:24
CV1363K-CS	680-91719-17	1AG03025.D	07/03/2013	16:55
CV1363K-CS MS	680-91719-17 MS	1AG03026.D	07/03/2013	17:10
CV1363K-CS MSD	680-91719-17 MSD	1AG03027.D	07/03/2013	17:25
CV1363D-CS	680-91719-8	1AG03028.D	07/03/2013	17:40
CV1363E-CS	680-91719-9	1AG03029.D	07/03/2013	17:55
CV1363F-CS	680-91719-10	1AG03030.D	07/03/2013	18:10
CV1363G-CS	680-91719-11	1AG03031.D	07/03/2013	18:25
CV1363G-CSD	680-91719-12	1AG03032.D	07/03/2013	18:40
CV1363H-CS	680-91719-13	1AG03033.D	07/03/2013	18:55
CV1363I-CS	680-91719-14	1AG03034.D	07/03/2013	19:10
CV1363J-CS	680-91719-15	1AG03035.D	07/03/2013	19:25
CV1363J-CSD	680-91719-16	1AG03036.D	07/03/2013	19:40

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Lab File ID: 1AG07005.D DFTPP Injection Date: 07/07/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 13:53

Analysis Batch No.: 139145

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	41.7	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	36.9	
70	Less than 2.0 % of mass 69	0.3	(0.8)1
127	10.0 - 80.0 % of mass 198	46.8	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.6	
275	10.0 - 60.0 % of mass 198	24.6	
365	Greater than 1.0 % of mass 198	2.8	
441	Present but less than mass 443	10.5	
442	Greater than 50.0 % of mass 198	69.6	
443	15.0 - 24.0 % of mass 442	13.8	(19.8)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 660-139145/7	1AG07006.D	07/07/2013	14:06
	IC 660-139145/8	1AG07007.D	07/07/2013	14:31
	IC 660-139145/9	1AG07008.D	07/07/2013	14:46
	IC 660-139145/10	1AG07009.D	07/07/2013	15:01
	IC 660-139145/11	1AG07010.D	07/07/2013	15:16
	IC 660-139145/12	1AG07011.D	07/07/2013	15:31
	IC 660-139145/13	1AG07012.D	07/07/2013	15:46
	ICV 660-139145/14	1AG07013.D	07/07/2013	16:01
CV1363L-CS	680-91719-18	1AG07018.D	07/07/2013	17:54
CV1363M-CS	680-91719-19	1AG07019.D	07/07/2013	18:09
CV1363N-CS	680-91719-20	1AG07020.D	07/07/2013	18:24

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Sample No.: ICIS 660-138314/4 Date Analyzed: 06/11/2013 14:27

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AF11004.D Heated Purge: (Y/N) N

Calibration ID: 3027

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		5185951	2.70	2562463	3.74	4147924	4.71
UPPER LIMIT		10371902	3.20	5124926	4.24	8295848	5.21
LOWER LIMIT		2592976	2.20	1281232	3.24	2073962	4.21
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-138314/11		4907724	2.70	2403198	3.74	3840938	4.71

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Sample No.: ICIS 660-138314/4 Date Analyzed: 06/11/2013 14:27

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AF11004.D Heated Purge: (Y/N) N

Calibration ID: 3027

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		3726885	6.76	4369974	7.86		
UPPER LIMIT		7453770	7.26	8739948	8.36		
LOWER LIMIT		1863443	6.26	2184987	7.36		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-138314/11		3418126	6.76	3927398	7.86		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Sample No.: CCVIS 660-139030/3 Date Analyzed: 07/02/2013 11:29

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AG02003.D Heated Purge: (Y/N) N

Calibration ID: 3027

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3223741	2.68	1665166	3.72	2688412	4.70
UPPER LIMIT		6447482	3.18	3330332	4.22	5376824	5.20
LOWER LIMIT		1611871	2.18	832583	3.22	1344206	4.20
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-138994/1-A		3901683	2.68	2259590	3.72	3442017	4.70
LCS 660-138994/2-A		3261686	2.68	1901674	3.73	2972046	4.70
680-91719-1	CV1363AB-GS	2761446	2.69	1557932	3.73	2373291	4.71
680-91719-1 MS	CV1363AB-GS MS	2505024	2.69	1429066	3.73	2196702	4.71
680-91719-1 MSD	CV1363AB-GS MSD	2762366	2.70	1579523	3.73	2383024	4.71
680-91719-2	CV1363AC-GS	2660008	2.69	1453218	3.73	2354995	4.71
680-91719-3	CV1363AD-GS	2584066	2.70	1460904	3.73	2309185	4.71
680-91719-4	CV1363A-CS	2672681	2.70	1504264	3.74	2329861	4.72
680-91719-5	CV1363A-CSD	2815315	2.69	1606329	3.74	2460399	4.71
680-91719-6	CV1363B-CS	2697039	2.70	1529832	3.73	2398858	4.71
680-91719-7	CV1363C-CS	2681875	2.69	1511587	3.74	2362345	4.72

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Sample No.: CCVIS 660-139030/3 Date Analyzed: 07/02/2013 11:29

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AG02003.D Heated Purge: (Y/N) N

Calibration ID: 3027

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2408537	6.75	2656233	7.85		
UPPER LIMIT		4817074	7.25	5312466	8.35		
LOWER LIMIT		1204269	6.25	1328117	7.35		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-138994/1-A		3367246	6.75	3641465	7.86		
LCS 660-138994/2-A		2876132	6.75	3159656	7.85		
680-91719-1	CV1363AB-GS	2995513	6.77	3713041	7.87		
680-91719-1 MS	CV1363AB-GS MS	2915396	6.77	3511815	7.87		
680-91719-1 MSD	CV1363AB-GS MSD	3162367	6.77	3749299	7.88		
680-91719-2	CV1363AC-GS	3171346	6.78	3716084	7.88		
680-91719-3	CV1363AD-GS	3347234	6.78	3699416	7.89		
680-91719-4	CV1363A-CS	3252117	6.78	3493357	7.89		
680-91719-5	CV1363A-CSD	3289102	6.78	3601465	7.89		
680-91719-6	CV1363B-CS	3356064	6.78	3577174	7.88		
680-91719-7	CV1363C-CS	3336935	6.78	3553594	7.89		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Sample No.: CCVIS 660-139084/3 Date Analyzed: 07/03/2013 11:21

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AG03003.D Heated Purge: (Y/N) N

Calibration ID: 3027

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		4148746	2.69	2198267	3.73	3490904	4.70
UPPER LIMIT		8297492	3.19	4396534	4.23	6981808	5.20
LOWER LIMIT		2074373	2.19	1099134	3.23	1745452	4.20
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-139005/1-A		4694426	2.69	2726990	3.72	4206426	4.71
LCS 660-139005/2-A		3949971	2.69	2315531	3.73	3803588	4.71
680-91719-A-21-B MS		3301952	2.70	1940043	3.74	3134052	4.72
680-91719-A-21-C MSD		3244404	2.70	1955039	3.74	3103695	4.73
MB 660-139049/1-A		3228474	2.70	1954856	3.73	2998839	4.72
LCS 660-139049/2-A		3046365	2.70	1884221	3.74	3068730	4.72
680-91719-17	CV1363K-CS	3234397	2.70	1906243	3.74	3056809	4.72
680-91719-17 MS	CV1363K-CS MS	3166795	2.70	1853185	3.74	3055188	4.72
680-91719-17 MSD	CV1363K-CS MSD	3122555	2.70	1908154	3.74	2952351	4.73
680-91719-8	CV1363D-CS	3190183	2.70	1805723	3.74	2966719	4.73
680-91719-9	CV1363E-CS	2961104	2.71	1763671	3.74	2958234	4.73
680-91719-10	CV1363F-CS	2960132	2.71	1755094	3.75	2967396	4.73
680-91719-11	CV1363G-CS	2974653	2.70	1786910	3.75	2991102	4.73
680-91719-12	CV1363G-CSD	2992720	2.71	1812580	3.75	2944663	4.74
680-91719-13	CV1363H-CS	3150384	2.70	1838638	3.75	3066046	4.73
680-91719-14	CV1363I-CS	2907028	2.71	1778701	3.75	2883677	4.74
680-91719-15	CV1363J-CS	3154845	2.71	1896594	3.75	2957489	4.74
680-91719-16	CV1363J-CSD	2890124	2.71	1785717	3.75	2897347	4.74

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Sample No.: CCVIS 660-139084/3 Date Analyzed: 07/03/2013 11:21

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AG03003.D Heated Purge: (Y/N) N

Calibration ID: 3027

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3237759	6.76	3626470	7.86		
UPPER LIMIT		6475518	7.26	7252940	8.36		
LOWER LIMIT		1618880	6.26	1813235	7.36		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-139005/1-A		4602052	6.76	4704774	7.86		
LCS 660-139005/2-A		3947212	6.76	4209981	7.86		
680-91719-A-21-B MS		4200266	6.80	4129662	7.91		
680-91719-A-21-C MSD		4236456	6.80	4002060	7.91		
MB 660-139049/1-A		4126283	6.79	3949212	7.90		
LCS 660-139049/2-A		4074454	6.79	3877935	7.89		
680-91719-17	CV1363K-CS	4485437	6.80	4162649	7.91		
680-91719-17 MS	CV1363K-CS MS	4326163	6.80	4014471	7.91		
680-91719-17 MSD	CV1363K-CS MSD	4293164	6.80	3803744	7.92		
680-91719-8	CV1363D-CS	4172612	6.81	3532995	7.92		
680-91719-9	CV1363E-CS	4144122	6.81	3477782	7.92		
680-91719-10	CV1363F-CS	4165110	6.81	3470986	7.92		
680-91719-11	CV1363G-CS	4252965	6.81	3394694	7.93		
680-91719-12	CV1363G-CSD	4146005	6.82	3182146	7.93		
680-91719-13	CV1363H-CS	4082441	6.82	3196955	7.93		
680-91719-14	CV1363I-CS	4161418	6.82	3164584	7.93		
680-91719-15	CV1363J-CS	4038059	6.82	3035043	7.93		
680-91719-16	CV1363J-CSD	3955753	6.82	2959821	7.94		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Sample No.: ICIS 660-139145/7 Date Analyzed: 07/07/2013 14:06

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AG07006.D Heated Purge: (Y/N) N

Calibration ID: 3117

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		3059306	2.68	1632402	3.71	2627201	4.69
UPPER LIMIT		6118612	3.18	3264804	4.21	5254402	5.19
LOWER LIMIT		1529653	2.18	816201	3.21	1313601	4.19
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-139145/14		2624272	2.68	1393027	3.71	2208439	4.69
680-91719-18	CV1363L-CS	2642950	2.68	1534347	3.71	2286211	4.69
680-91719-19	CV1363M-CS	2775357	2.68	1631402	3.72	2366064	4.69
680-91719-20	CV1363N-CS	2695863	2.68	1606446	3.72	2261751	4.70

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Sample No.: ICIS 660-139145/7 Date Analyzed: 07/07/2013 14:06

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um)

Lab File ID (Standard): 1AG07006.D Heated Purge: (Y/N) N

Calibration ID: 3117

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2407613	6.75	2496028	7.85		
UPPER LIMIT		4815226	7.25	4992056	8.35		
LOWER LIMIT		1203807	6.25	1248014	7.35		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-139145/14		2029780	6.75	2228189	7.84		
680-91719-18	CV1363L-CS	2228881	6.75	2780123	7.85		
680-91719-19	CV1363M-CS	2352174	6.76	2949863	7.87		
680-91719-20	CV1363N-CS	2371945	6.76	3202737	7.86		

CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363AB-GS | Lab Sample ID: 680-91719-1

Matrix: Solid | Lab File ID: 1AG02039.D

Analysis Method: 8270C LL | Date Collected: 06/24/2013 12:45

Extract. Method: 3546 | Date Extracted: 07/01/2013 13:43

Sample wt/vol: 15.02(g) | Date Analyzed: 07/02/2013 20:46

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 30.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139030 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	570	U	570	110
208-96-8	Acenaphthylene	130	J	230	29
120-12-7	Anthracene	150		48	24
56-55-3	Benzo[a]anthracene	200		46	22
50-32-8	Benzo[a]pyrene	220		60	30
205-99-2	Benzo[b]fluoranthene	390		70	35
191-24-2	Benzo[g,h,i]perylene	200		110	25
207-08-9	Benzo[k]fluoranthene	220		46	21
218-01-9	Chrysene	340		52	26
53-70-3	Dibenz(a,h)anthracene	70	J	110	24
206-44-0	Fluoranthene	370		110	23
86-73-7	Fluorene	110	U	110	24
193-39-5	Indeno[1,2,3-cd]pyrene	200		110	41
90-12-0	1-Methylnaphthalene	160	J	230	25
91-57-6	2-Methylnaphthalene	210	J	230	41
91-20-3	Naphthalene	200	J	230	25
85-01-8	Phenanthrene	310		46	22
129-00-0	Pyrene	250		110	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	36		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\1AG02039.D
Lab Smp Id: 680-91719-A-1-A Client Smp ID: CV1363AB-GS
Inj Date : 02-JUL-2013 20:46
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-a-1-a
Misc Info : 680-91719-A-1-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\a-bFASTPAHi-m.m
Meth Date : 02-Jul-2013 11:39 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 39
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	30.426	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.690	2.683	(1.000)	2761446	40.0000	
* 7 Acenaphthene-d10	164	3.726	3.719	(1.000)	1557932	40.0000	
* 11 Phenanthrene-d10	188	4.709	4.697	(1.000)	2373291	40.0000	
$ 15 o-Terphenyl	230	4.998	4.996	(1.061)	43888	0.89249	341.6191
* 19 Chrysene-d12	240	6.766	6.748	(1.000)	2995513	40.0000	
* 24 Perylene-d12	264	7.872	7.849	(1.000)	3713041	40.0000	
2 Naphthalene	128	2.701	2.699	(1.004)	36750	0.50970	195.1003
3 2-Methylnaphthalene	141	3.107	3.105	(1.155)	23913	0.54751	209.5726
4 1-Methylnaphthalene	142	3.165	3.158	(1.177)	21491	0.42168	161.4079(H)
6 Acenaphthylene	152	3.641	3.634	(0.977)	13579	0.33453	128.0477(H)
12 Phenanthrene	178	4.720	4.713	(1.002)	63112	0.81754	312.9326
13 Anthracene	178	4.752	4.745	(1.009)	20784	0.40039	153.2573(H)
16 Fluoranthene	202	5.601	5.594	(1.189)	86181	0.96749	370.3286
17 Pyrene	202	5.772	5.765	(0.853)	78795	0.65245	249.7381

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
18 Benzo(a)anthracene	228	6.755	6.738	(0.998)	62064	0.51942	198.8194
20 Chrysene	228	6.777	6.764	(1.002)	85971	0.87621	335.3880
21 Benzo(b)fluoranthene	252	7.583	7.571	(0.963)	121105	1.03052	394.4529(M)
22 Benzo(k)fluoranthene	252	7.589	7.592	(0.964)	58516	0.56604	216.6630(QM)
23 Benzo(a)pyrene	252	7.813	7.801	(0.993)	62153	0.56590	216.6101
25 Indeno(1,2,3-cd)pyrene	276	8.716	8.698	(1.107)	50206	0.51208	196.0095(M)
26 Dibenzo(a,h)anthracene	278	8.737	8.725	(1.110)	17644	0.18161	69.5158
27 Benzo(g,h,i)perylene	276	8.967	8.949	(1.139)	55122	0.52798	202.0960

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG02039.D

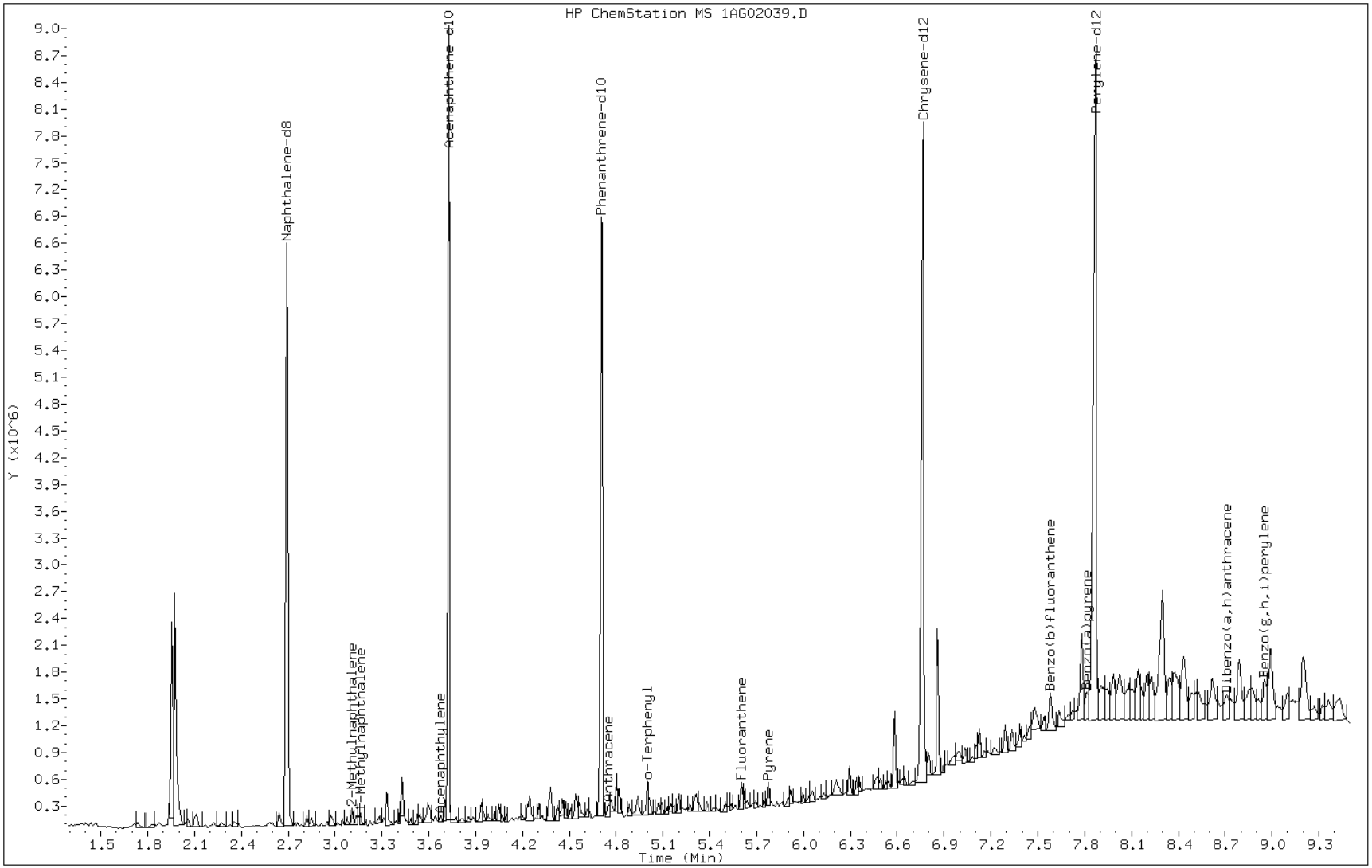
Date: 02-JUL-2013 20:46

Client ID: CV1363AB-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-1-a

Operator: SCC



Data File: 1AG02039.D

Date: 02-JUL-2013 20:46

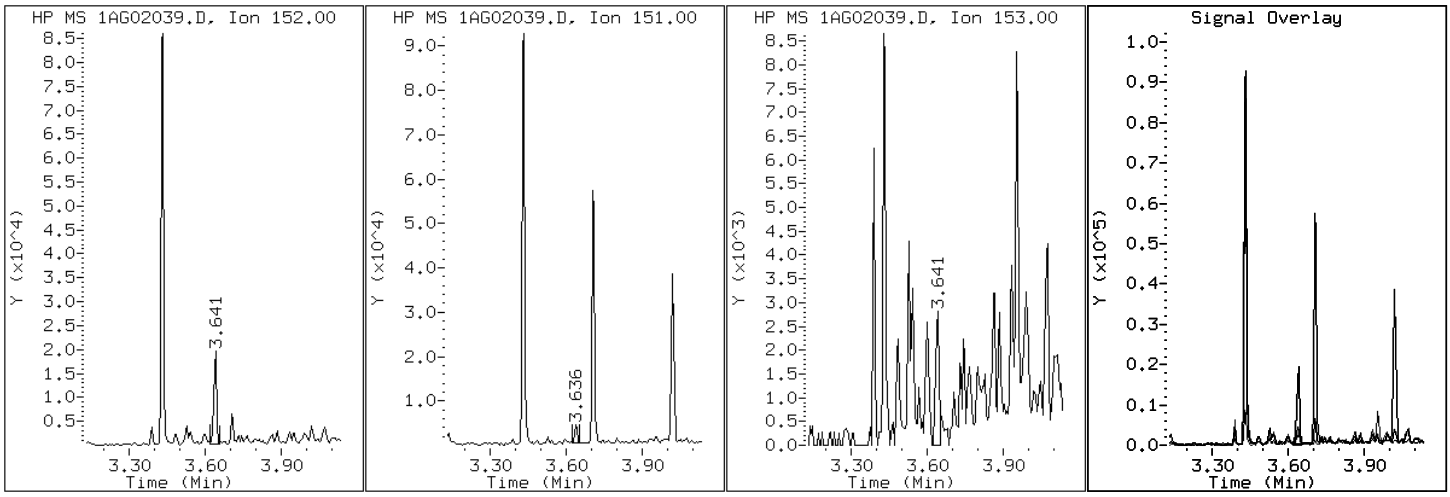
Client ID: CV1363AB-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-1-a

Operator: SCC

6 Acenaphthylene



Data File: 1AG02039.D

Date: 02-JUL-2013 20:46

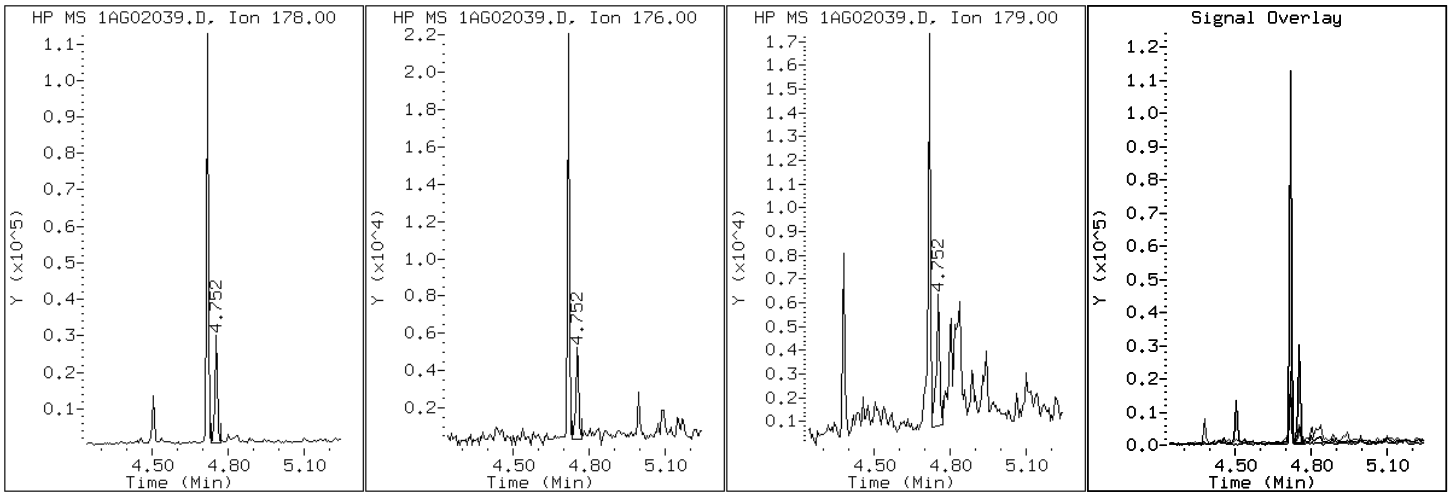
Client ID: CV1363AB-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-1-a

Operator: SCC

13 Anthracene



Data File: 1AG02039.D

Date: 02-JUL-2013 20:46

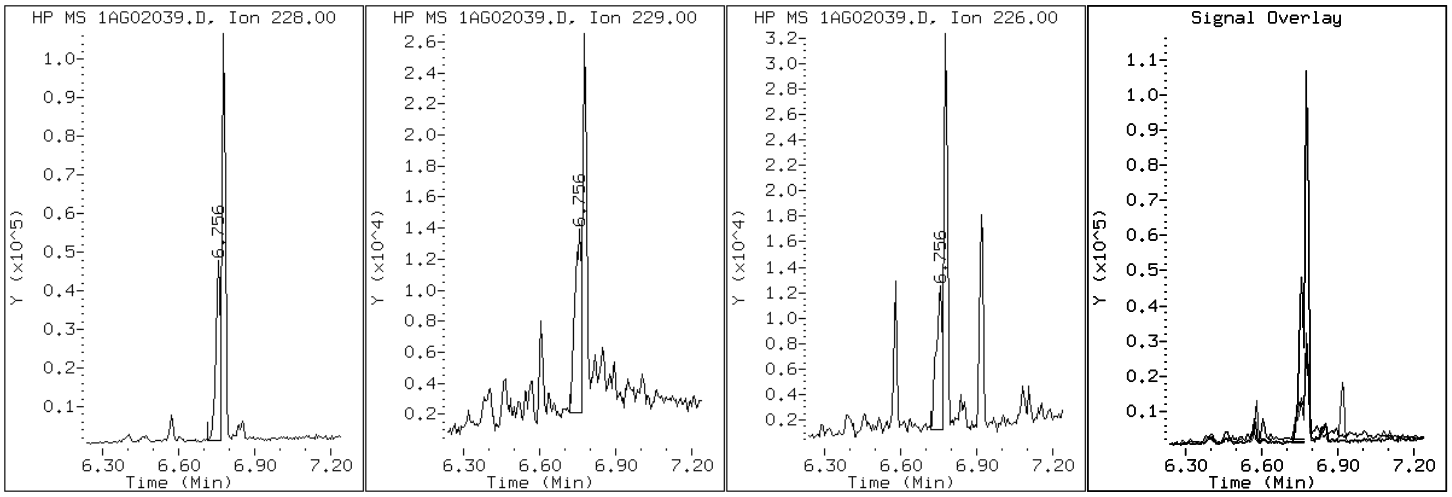
Client ID: CV1363AB-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-1-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1AG02039.D

Date: 02-JUL-2013 20:46

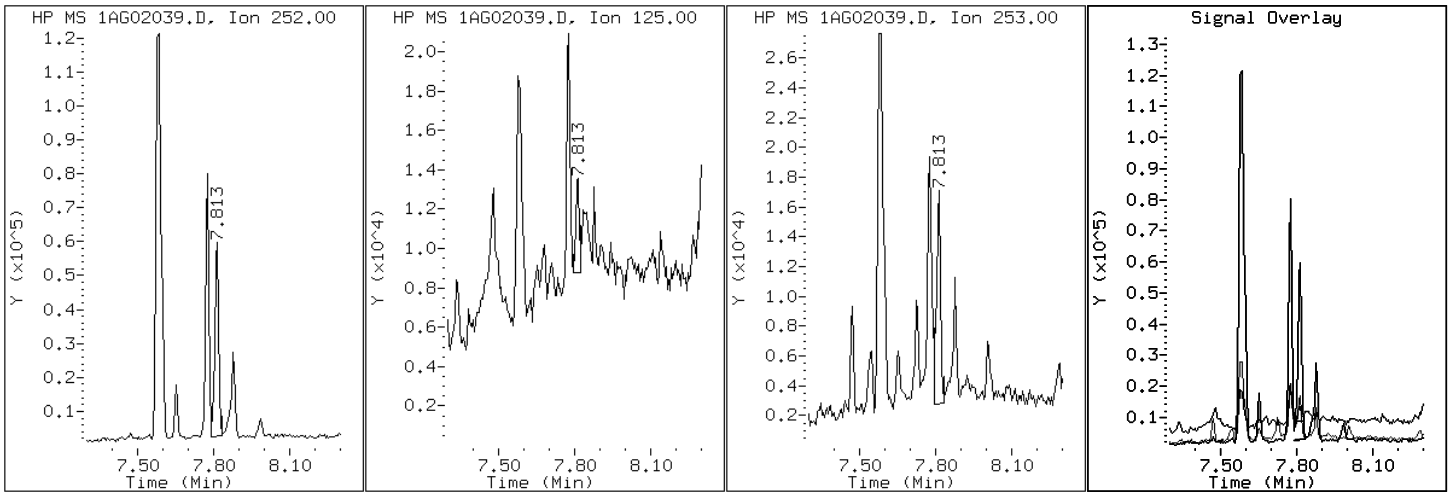
Client ID: CV1363AB-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-1-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1AG02039.D

Date: 02-JUL-2013 20:46

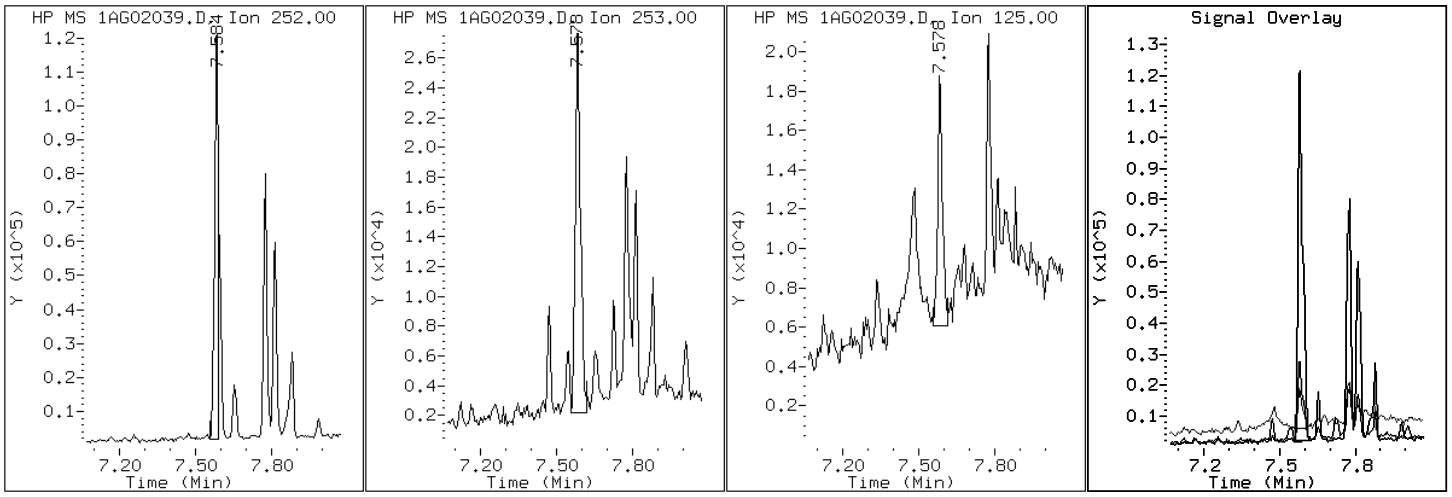
Client ID: CV1363AB-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-1-a

Operator: SCC

21 Benzo(b)fluoranthene



Data File: 1AG02039.D

Date: 02-JUL-2013 20:46

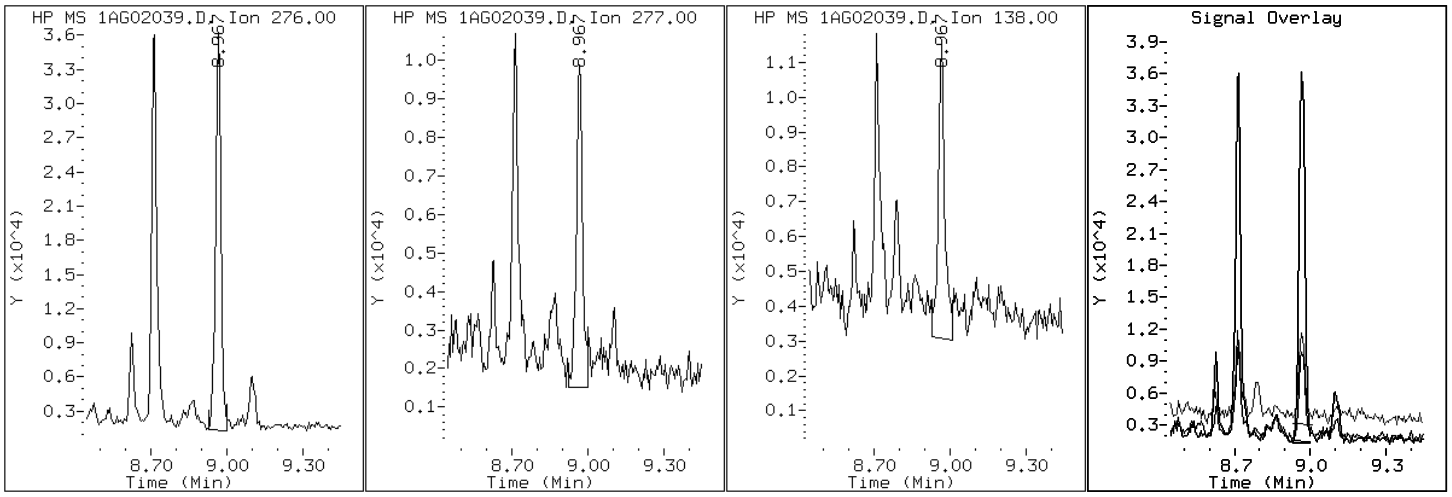
Client ID: CV1363AB-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-1-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1AG02039.D

Date: 02-JUL-2013 20:46

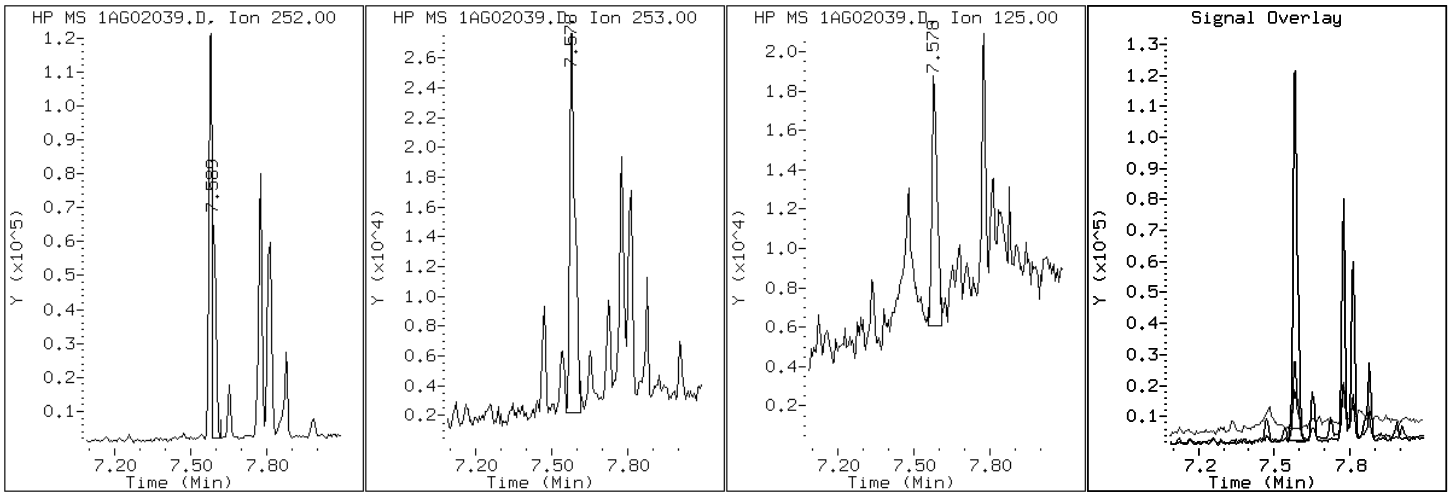
Client ID: CV1363AB-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-1-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1AG02039.D

Date: 02-JUL-2013 20:46

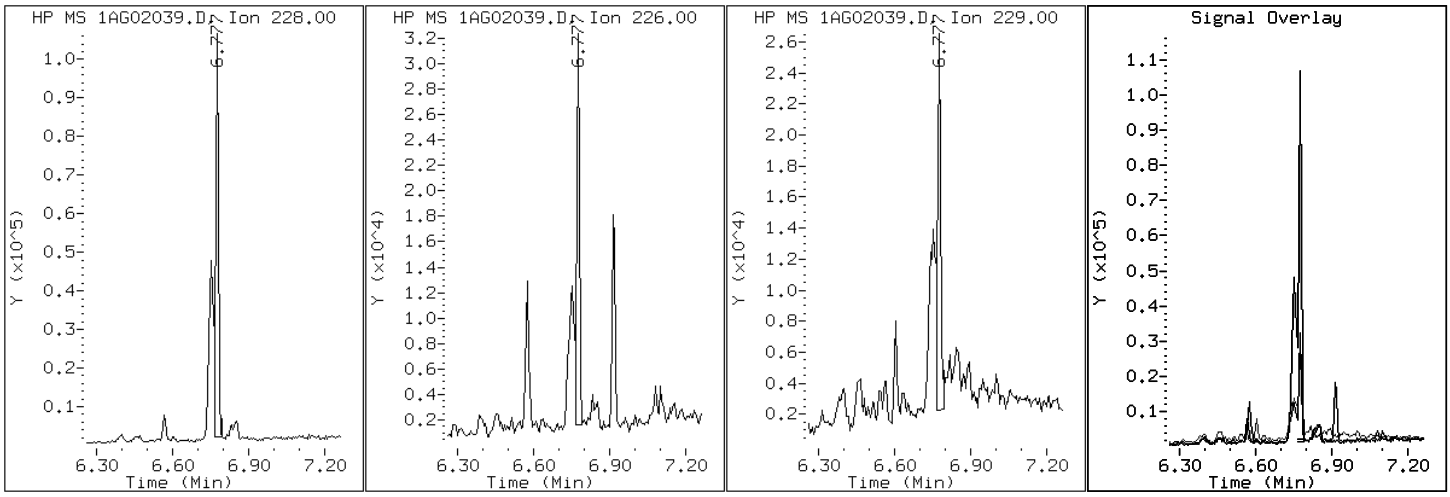
Client ID: CV1363AB-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-1-a

Operator: SCC

20 Chrysene



Data File: 1AG02039.D

Date: 02-JUL-2013 20:46

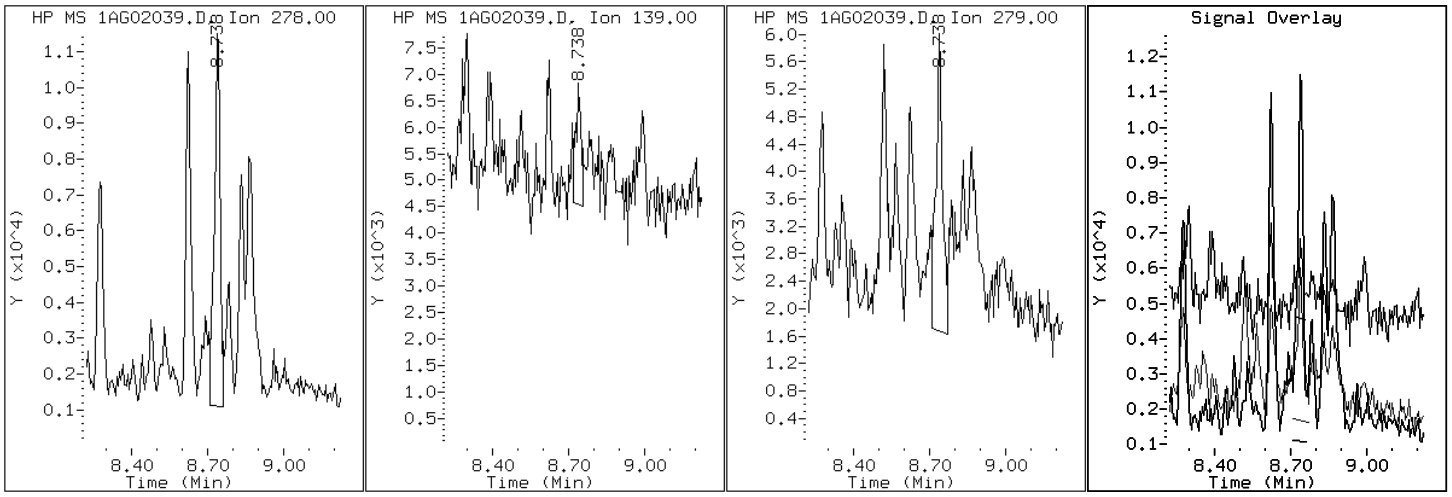
Client ID: CV1363AB-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-1-a

Operator: SCC

26 Dibenzo(a,h)anthracene



Data File: 1AG02039.D

Date: 02-JUL-2013 20:46

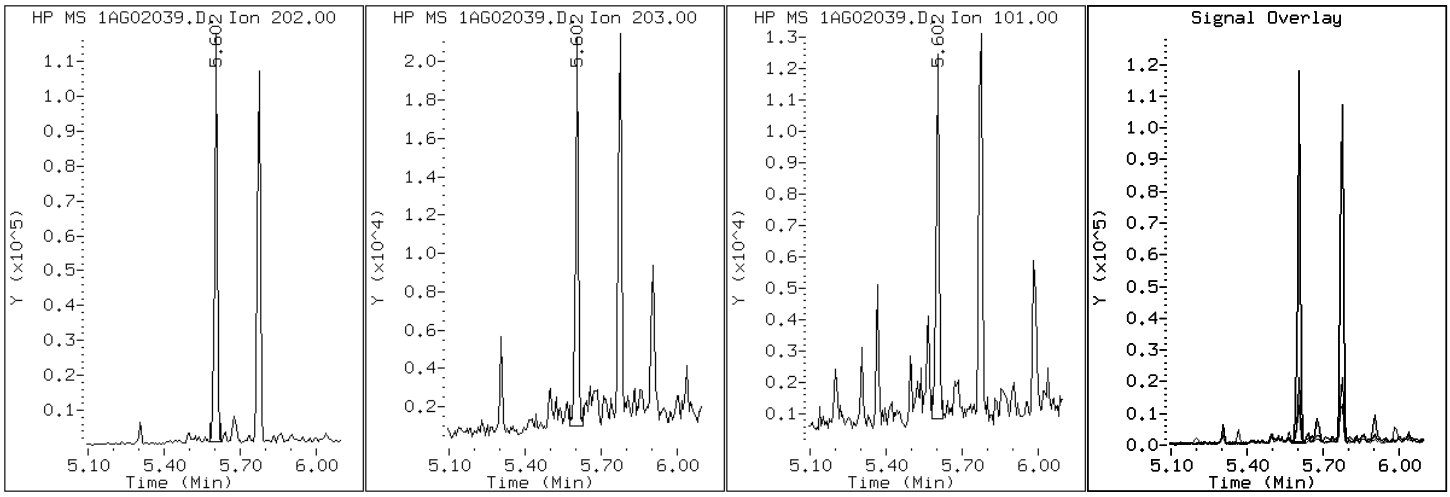
Client ID: CV1363AB-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-1-a

Operator: SCC

16 Fluoranthene



Data File: 1AG02039.D

Date: 02-JUL-2013 20:46

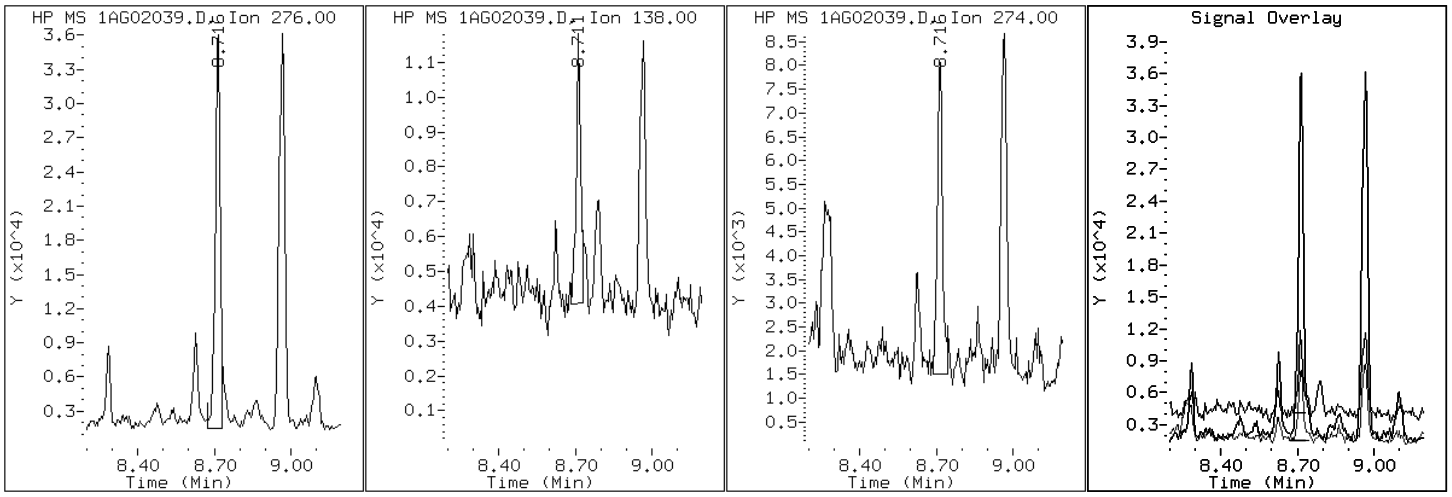
Client ID: CV1363AB-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-1-a

Operator: SCC

25 Indeno(1,2,3-cd)pyrene



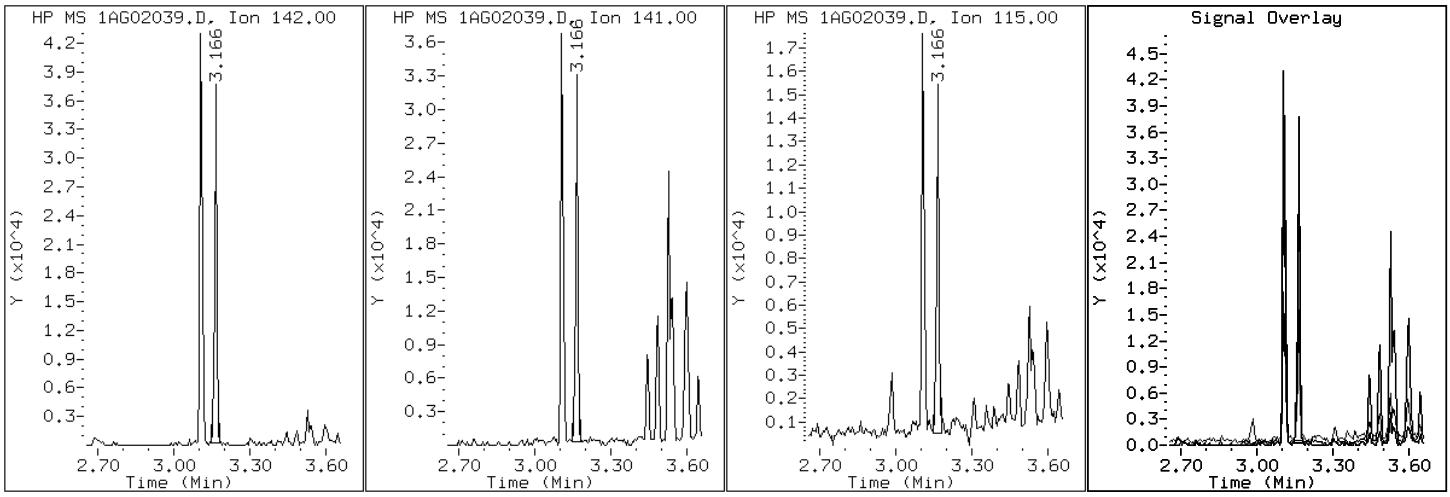
Data File: 1AG02039.D

Date: 02-JUL-2013 20:46

Client ID: CV1363AB-GS Instrument: BSMA5973.i

Sample Info: 680-91719-a-1-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1AG02039.D

Date: 02-JUL-2013 20:46

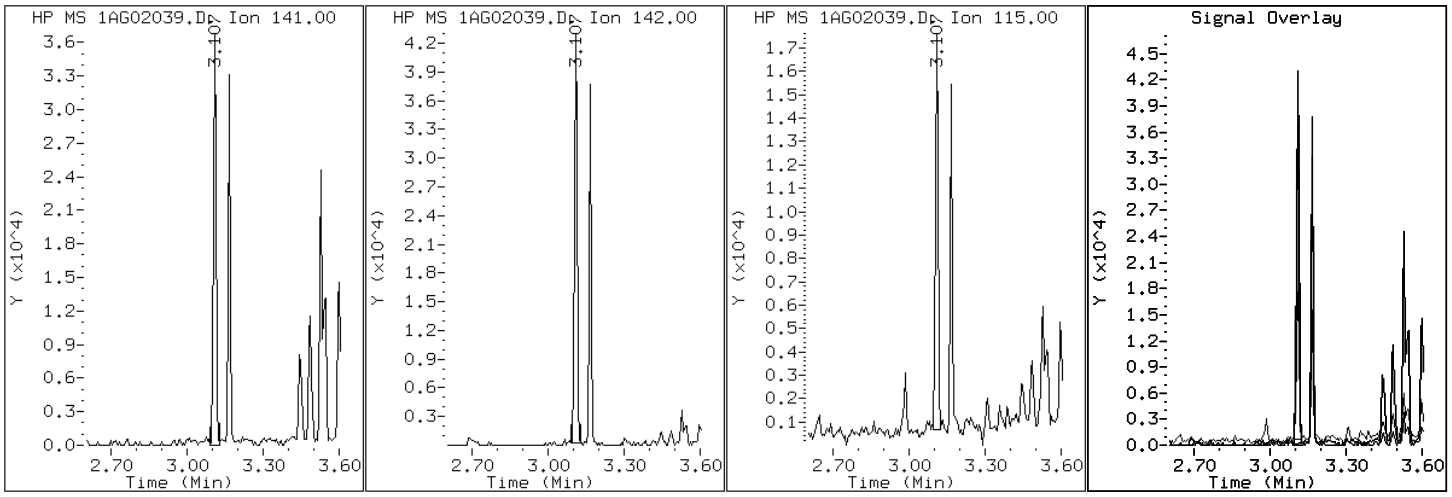
Client ID: CV1363AB-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-1-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AG02039.D

Date: 02-JUL-2013 20:46

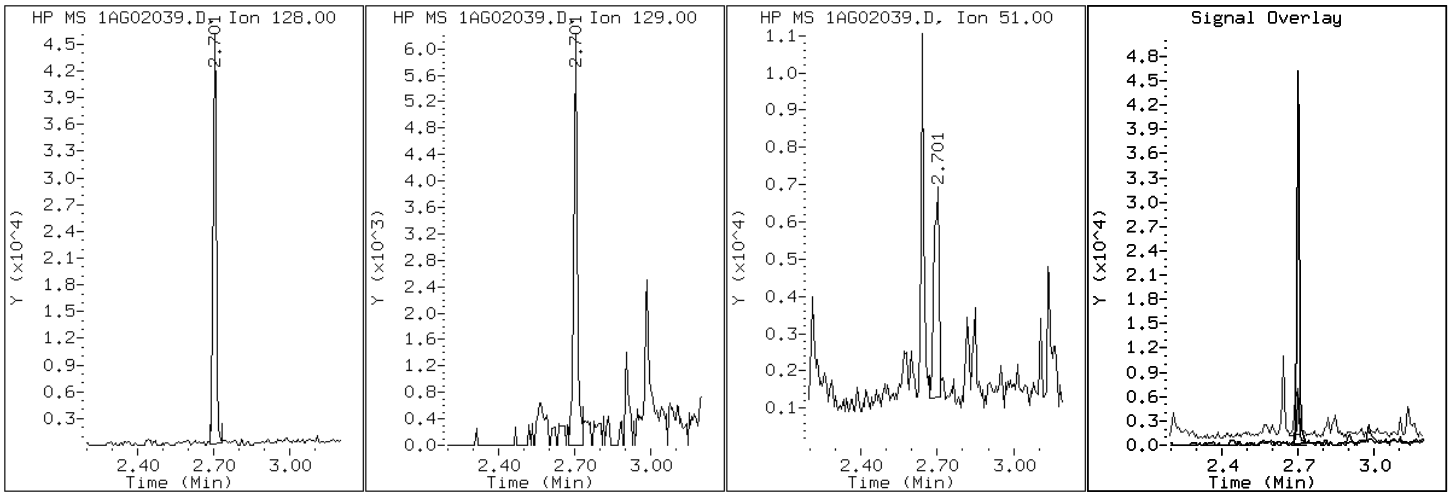
Client ID: CV1363AB-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-1-a

Operator: SCC

2 Naphthalene



Data File: 1AG02039.D

Date: 02-JUL-2013 20:46

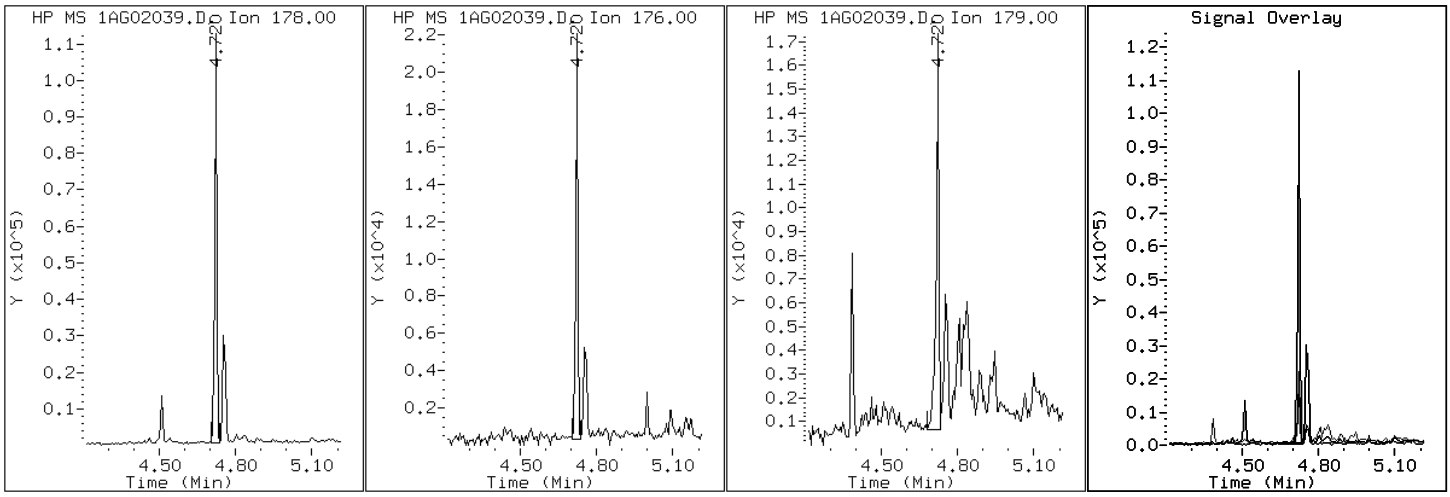
Client ID: CV1363AB-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-1-a

Operator: SCC

12 Phenanthrene



Data File: 1AG02039.D

Date: 02-JUL-2013 20:46

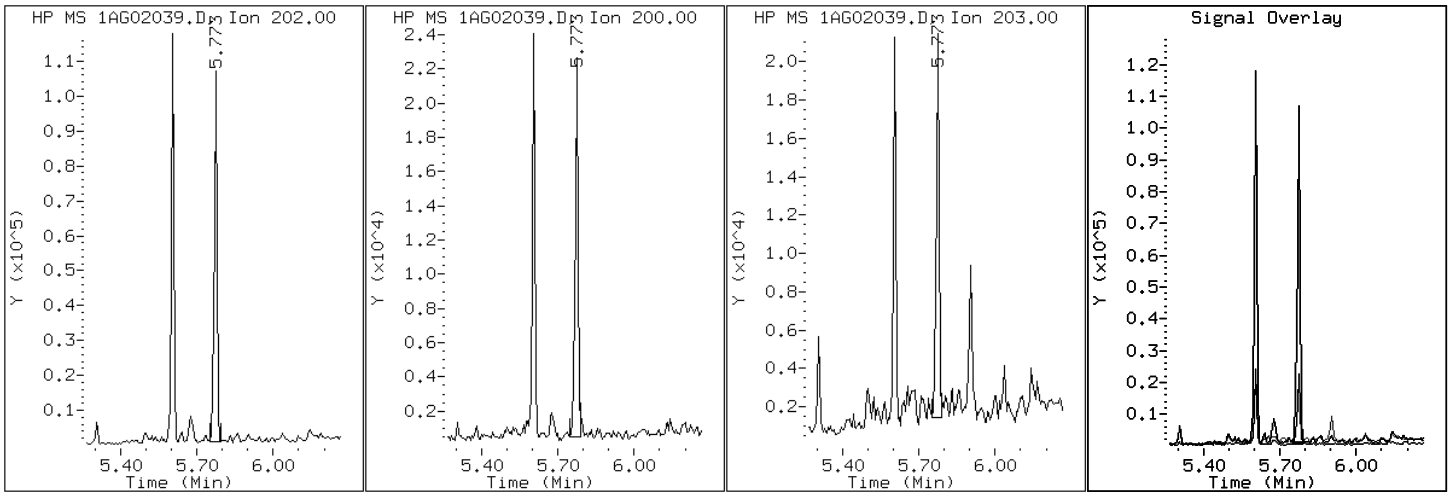
Client ID: CV1363AB-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-1-a

Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG02039.D
Inj. Date and Time: 02-JUL-2013 20:46
Instrument ID: BSMA5973.i
Client ID: CV1363AB-GS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/03/2013

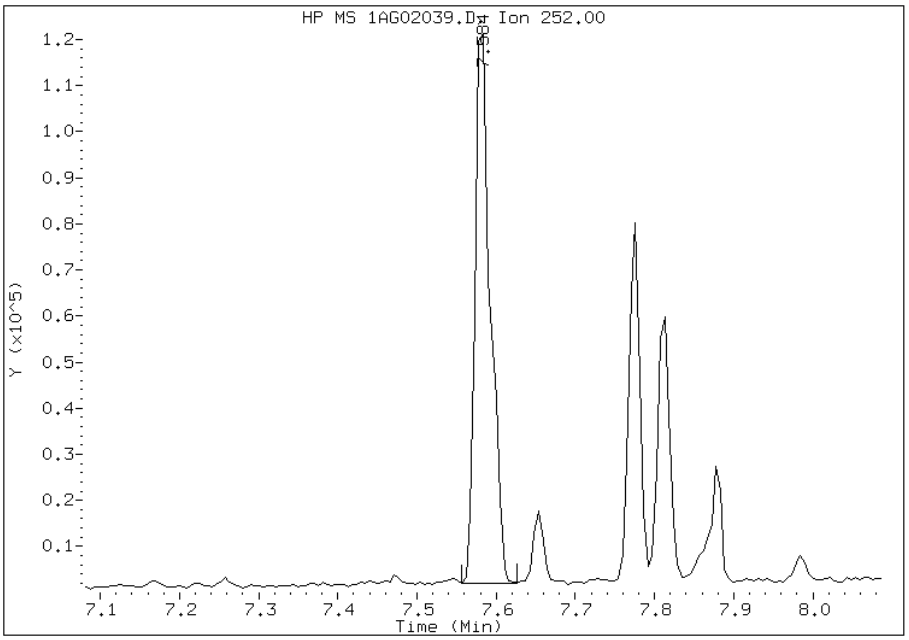
Processing Integration Results

RT: 7.58

Response: 158806

Amount: 1

Conc: 517



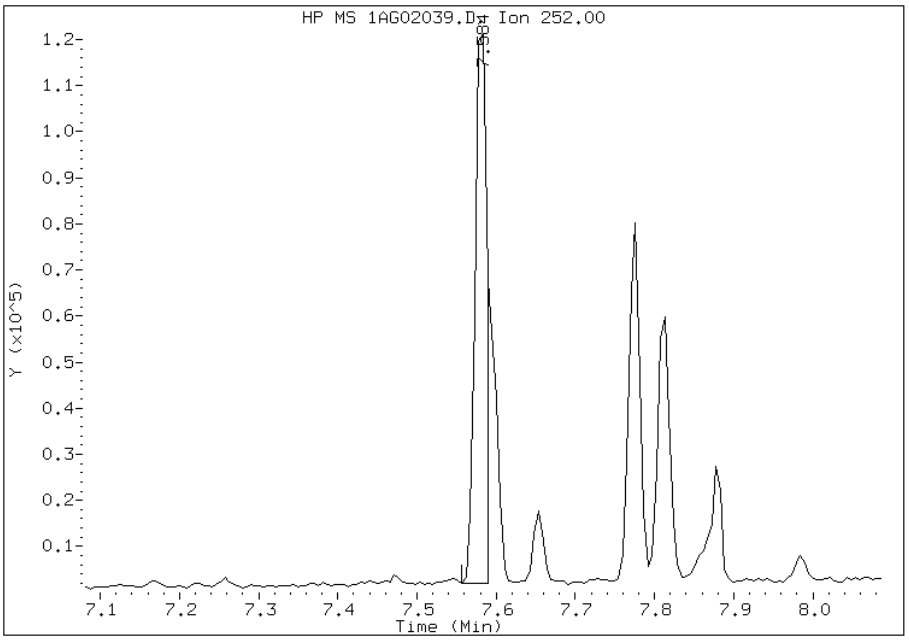
Manual Integration Results

RT: 7.58

Response: 121105

Amount: 1

Conc: 394



Manually Integrated By: cantins
Modification Date: 03-Jul-2013 15:50
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG02039.D
Inj. Date and Time: 02-JUL-2013 20:46
Instrument ID: BSMA5973.i
Client ID: CV1363AB-GS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/03/2013

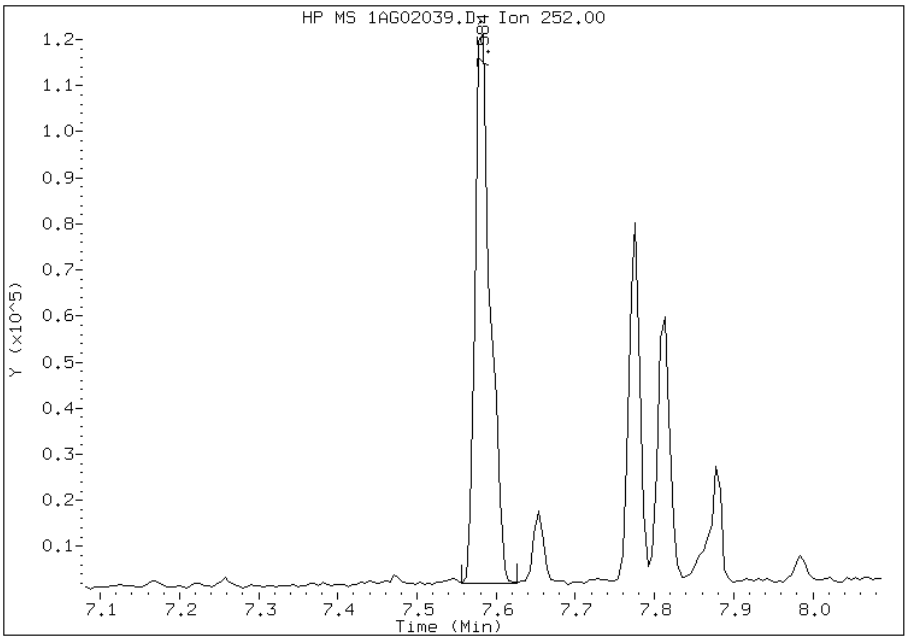
Processing Integration Results

RT: 7.58

Response: 158806

Amount: 1

Conc: 472



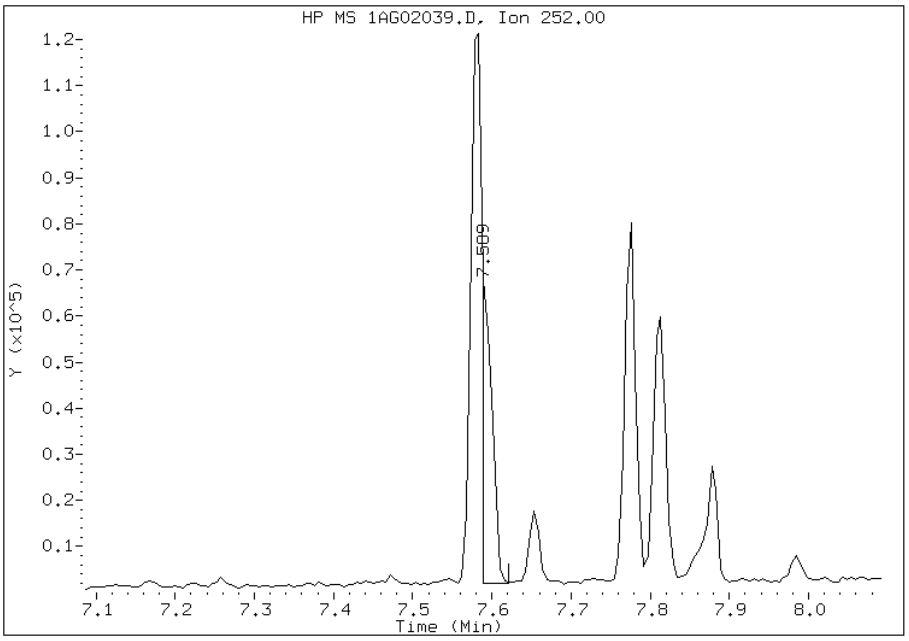
Manual Integration Results

RT: 7.59

Response: 58516

Amount: 1

Conc: 217



Manually Integrated By: cantins
Modification Date: 03-Jul-2013 15:50
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG02039.D
Inj. Date and Time: 02-JUL-2013 20:46
Instrument ID: BSMA5973.i
Client ID: CV1363AB-GS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/03/2013

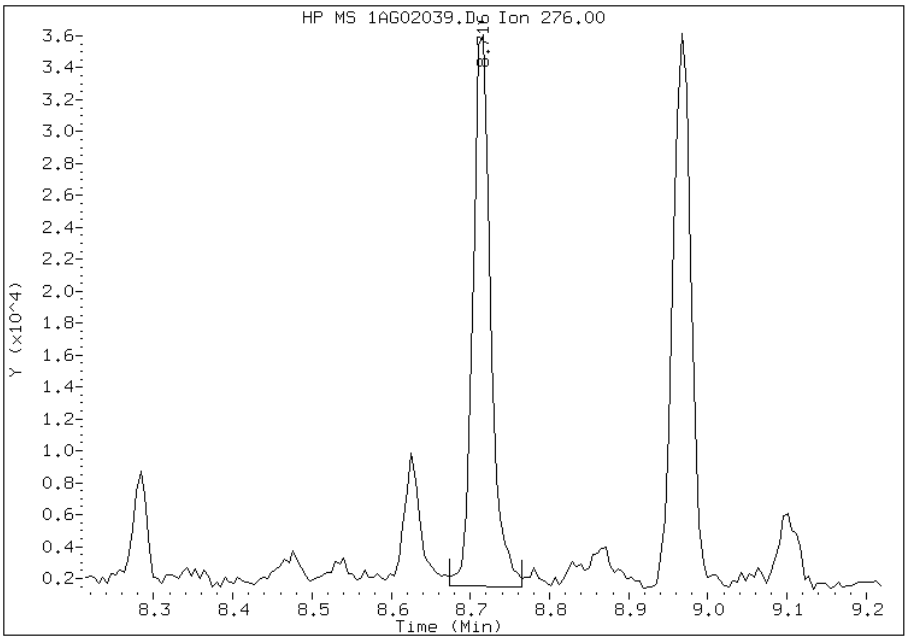
Processing Integration Results

RT: 8.72

Response: 53980

Amount: 1

Conc: 211



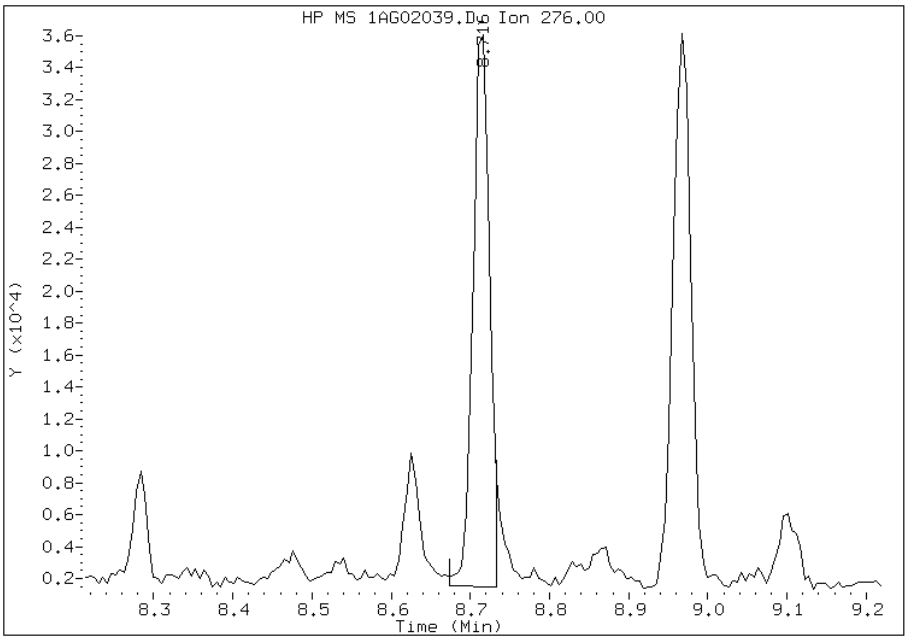
Manual Integration Results

RT: 8.72

Response: 50206

Amount: 1

Conc: 196



Manually Integrated By: cantins
Modification Date: 03-Jul-2013 15:50
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363AC-GS | Lab Sample ID: 680-91719-2

Matrix: Solid | Lab File ID: 1AG02042.D

Analysis Method: 8270C LL | Date Collected: 06/24/2013 13:50

Extract. Method: 3546 | Date Extracted: 07/01/2013 13:43

Sample wt/vol: 15.18(g) | Date Analyzed: 07/02/2013 21:31

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 19.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139030 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	46	J	49	6.1
120-12-7	Anthracene	67		10	5.2
56-55-3	Benzo[a]anthracene	140		9.8	4.8
50-32-8	Benzo[a]pyrene	150		13	6.4
205-99-2	Benzo[b]fluoranthene	280		15	7.5
191-24-2	Benzo[g,h,i]perylene	120		25	5.4
207-08-9	Benzo[k]fluoranthene	110		9.8	4.4
218-01-9	Chrysene	230		11	5.5
53-70-3	Dibenz(a,h)anthracene	39		25	5.0
206-44-0	Fluoranthene	230		25	4.9
86-73-7	Fluorene	25	U	25	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	120		25	8.7
90-12-0	1-Methylnaphthalene	84		49	5.4
91-57-6	2-Methylnaphthalene	100		49	8.7
91-20-3	Naphthalene	110		49	5.4
85-01-8	Phenanthrene	160		9.8	4.8
129-00-0	Pyrene	170		25	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	34		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\1AG02042.D
Lab Smp Id: 680-91719-A-2-A Client Smp ID: CV1363AC-GS
Inj Date : 02-JUL-2013 21:31
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-a-2-a
Misc Info : 680-91719-A-2-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\a-bFASTPAHi-m.m
Meth Date : 02-Jul-2013 11:39 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 42
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.180	Weight Extracted
M	19.427	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.694	2.683	(1.000)	2660008	40.0000	
* 7 Acenaphthene-d10	164	3.730	3.719	(1.000)	1453218	40.0000	
* 11 Phenanthrene-d10	188	4.708	4.697	(1.000)	2354995	40.0000	
$ 15 o-Terphenyl	230	5.002	4.996	(1.062)	170375	3.41760	279.4231
* 19 Chrysene-d12	240	6.775	6.748	(1.000)	3171346	40.0000	
* 24 Perylene-d12	264	7.881	7.849	(1.000)	3716084	40.0000	
2 Naphthalene	128	2.704	2.699	(1.004)	92838	1.33672	109.2900
3 2-Methylnaphthalene	141	3.110	3.105	(1.155)	61186	1.27666	104.3800
4 1-Methylnaphthalene	142	3.164	3.158	(1.174)	58700	1.02783	84.0352
6 Acenaphthylene	152	3.639	3.634	(0.976)	41281	0.56741	46.3911
12 Phenanthrene	178	4.724	4.713	(1.003)	169032	1.98210	162.0564
13 Anthracene	178	4.756	4.745	(1.010)	64226	0.82277	67.2698
16 Fluoranthene	202	5.611	5.594	(1.192)	291585	2.87233	234.8415
17 Pyrene	202	5.776	5.765	(0.853)	259137	2.02676	165.7081

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
18 Benzo(a)anthracene	228	6.764	6.738	(0.998)	193085	1.71349	140.0945
20 Chrysene	228	6.786	6.764	(1.002)	289328	2.78531	227.7268
21 Benzo(b)fluoranthene	252	7.592	7.571	(0.963)	400738	3.40720	278.5727(M)
22 Benzo(k)fluoranthene	252	7.603	7.592	(0.965)	169195	1.30199	106.4509(QM)
23 Benzo(a)pyrene	252	7.828	7.801	(0.993)	206232	1.87619	153.3973
25 Indeno(1,2,3-cd)pyrene	276	8.746	8.698	(1.110)	138274	1.40918	115.2144(M)
26 Dibenzo(a,h)anthracene	278	8.768	8.725	(1.113)	45803	0.47107	38.5146
27 Benzo(g,h,i)perylene	276	9.013	8.949	(1.144)	154775	1.48128	121.1096

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AG02042.D

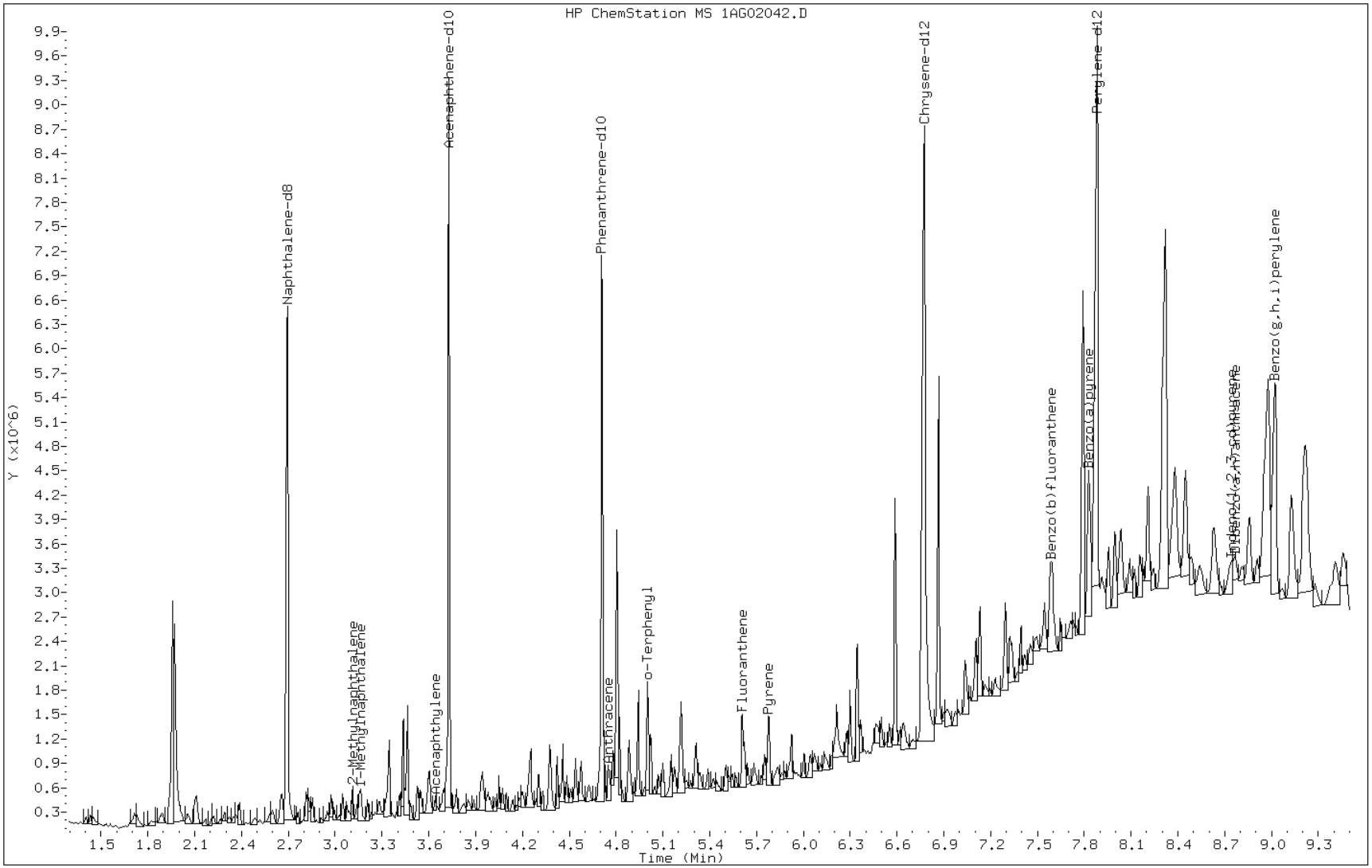
Date: 02-JUL-2013 21:31

Client ID: CV1363AC-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-2-a

Operator: SCC



Data File: 1AG02042.D

Date: 02-JUL-2013 21:31

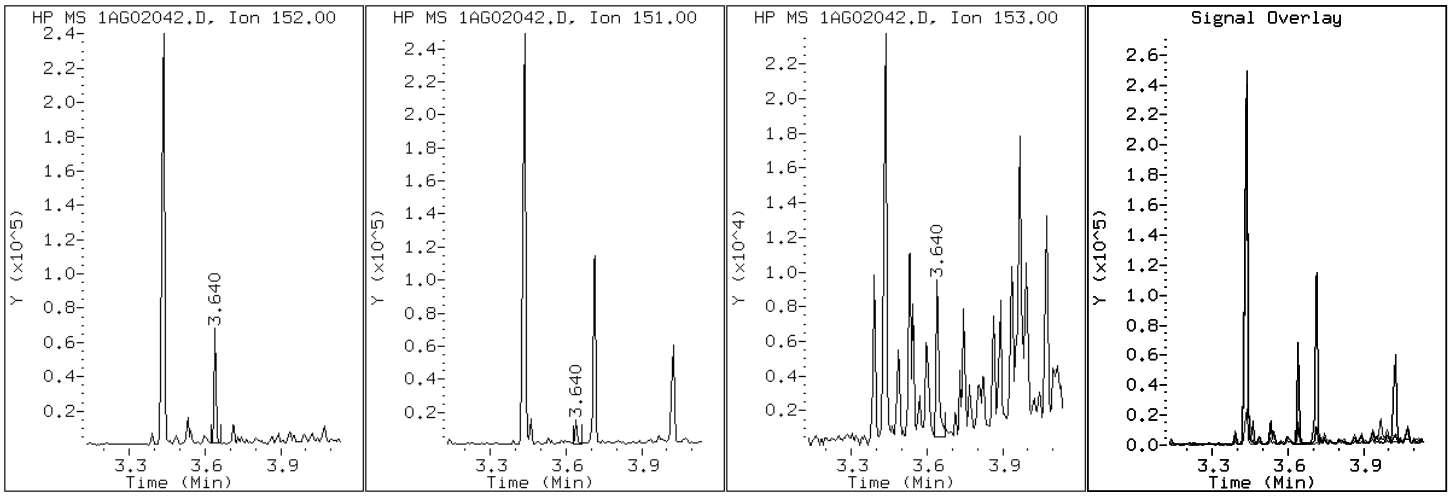
Client ID: CV1363AC-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-2-a

Operator: SCC

6 Acenaphthylene



Data File: 1AG02042.D

Date: 02-JUL-2013 21:31

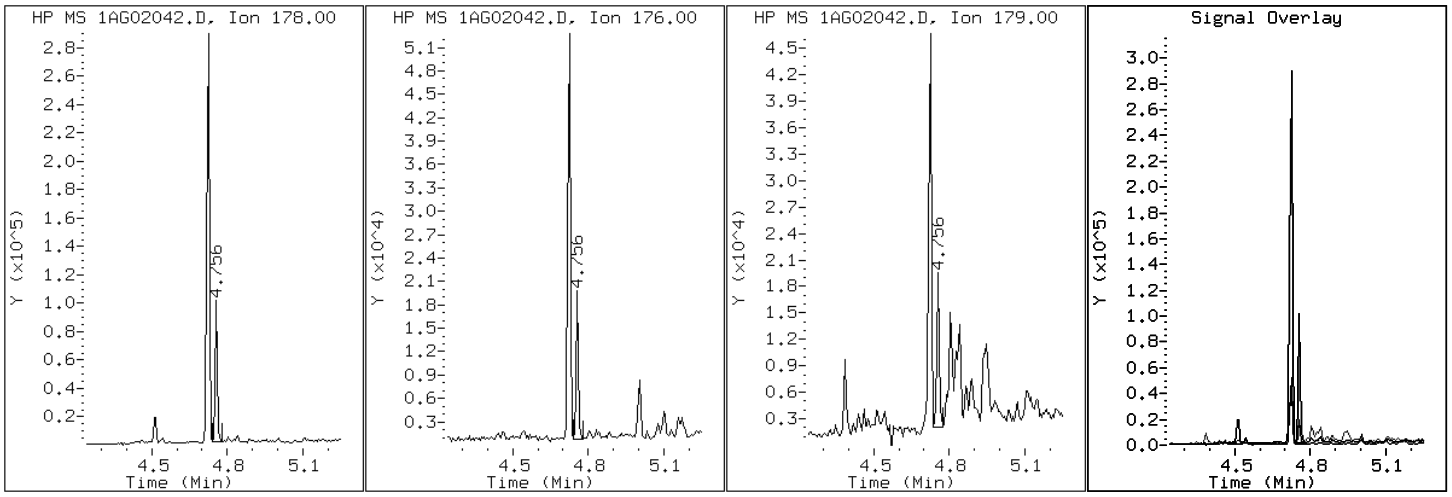
Client ID: CV1363AC-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-2-a

Operator: SCC

13 Anthracene



Data File: 1AG02042.D

Date: 02-JUL-2013 21:31

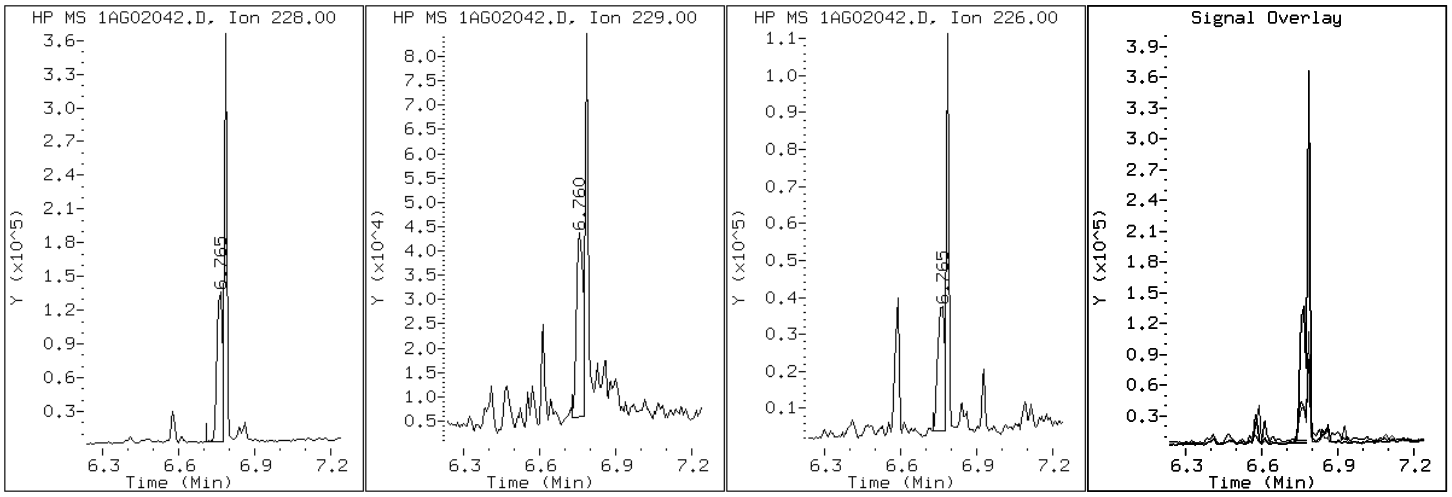
Client ID: CV1363AC-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-2-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1AG02042.D

Date: 02-JUL-2013 21:31

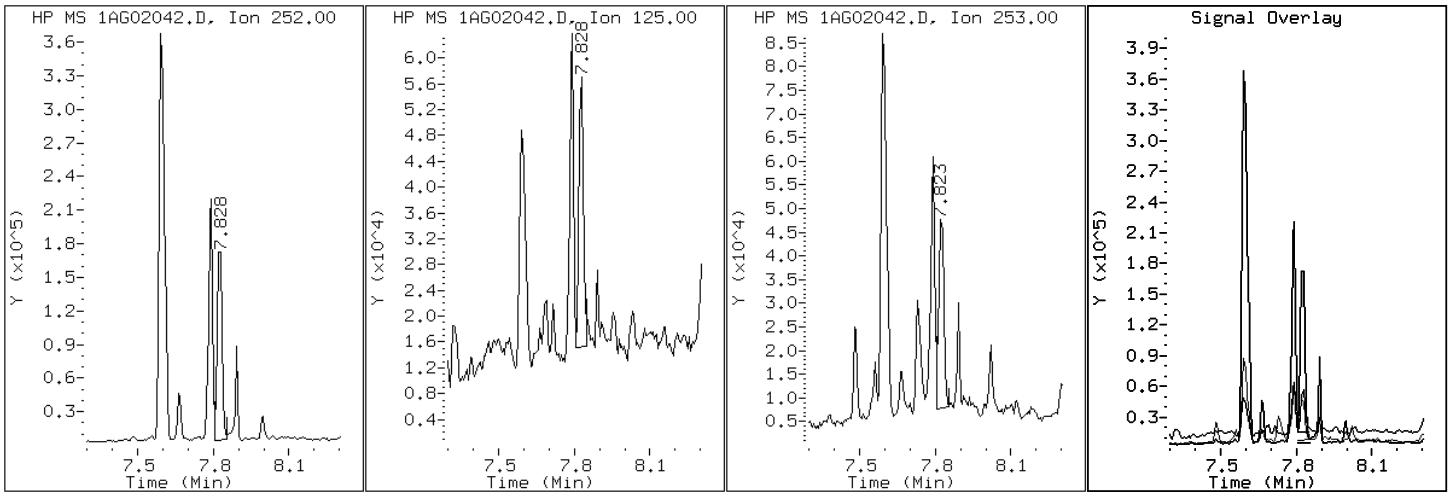
Client ID: CV1363AC-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-2-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1AG02042.D

Date: 02-JUL-2013 21:31

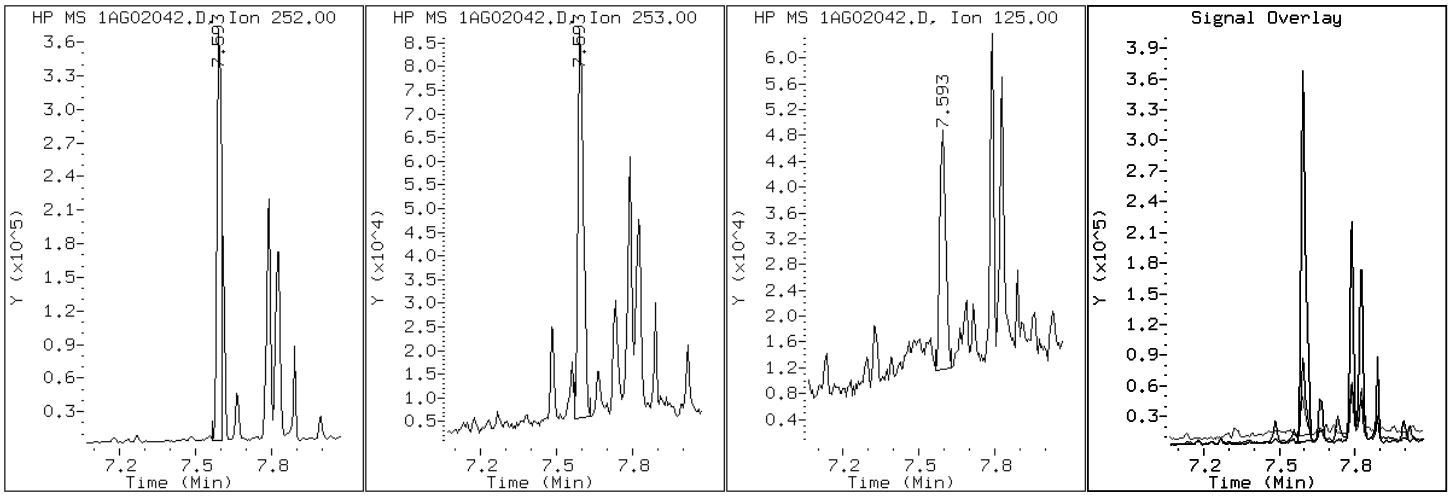
Client ID: CV1363AC-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-2-a

Operator: SCC

21 Benzo(b)fluoranthene



Data File: 1AG02042.D

Date: 02-JUL-2013 21:31

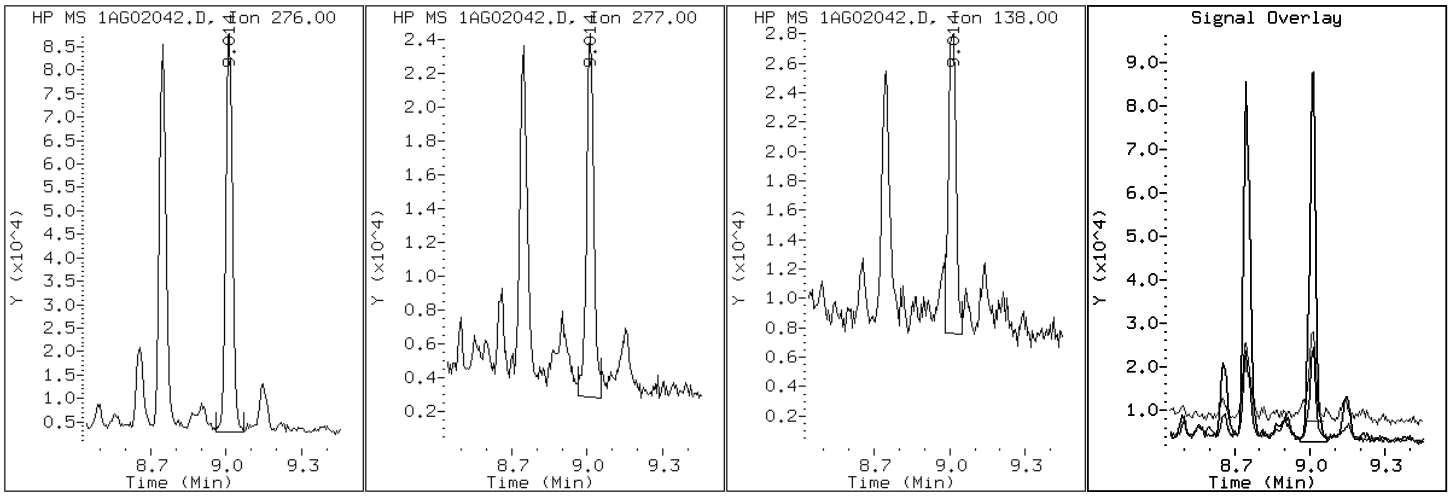
Client ID: CV1363AC-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-2-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1AG02042.D

Date: 02-JUL-2013 21:31

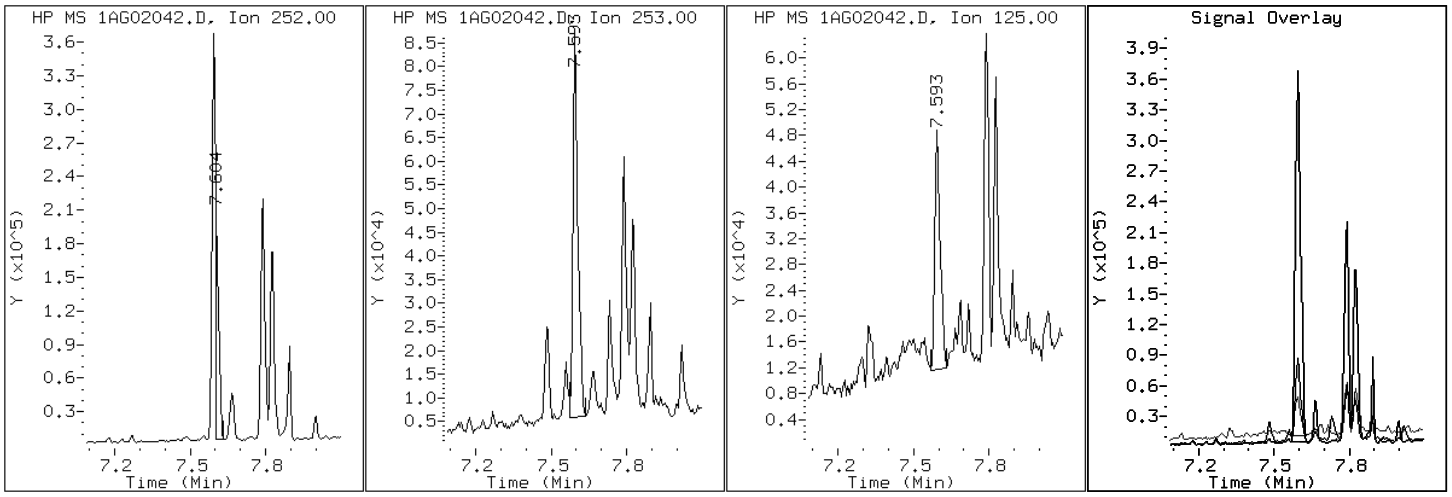
Client ID: CV1363AC-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-2-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1AG02042.D

Date: 02-JUL-2013 21:31

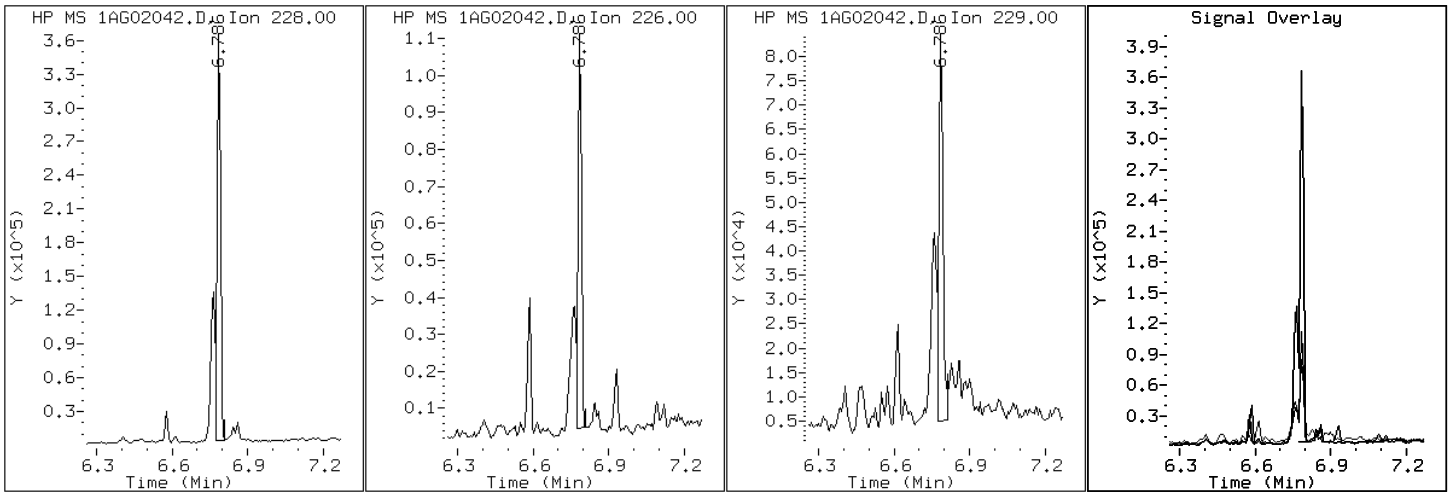
Client ID: CV1363AC-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-2-a

Operator: SCC

20 Chrysene



Data File: 1AG02042.D

Date: 02-JUL-2013 21:31

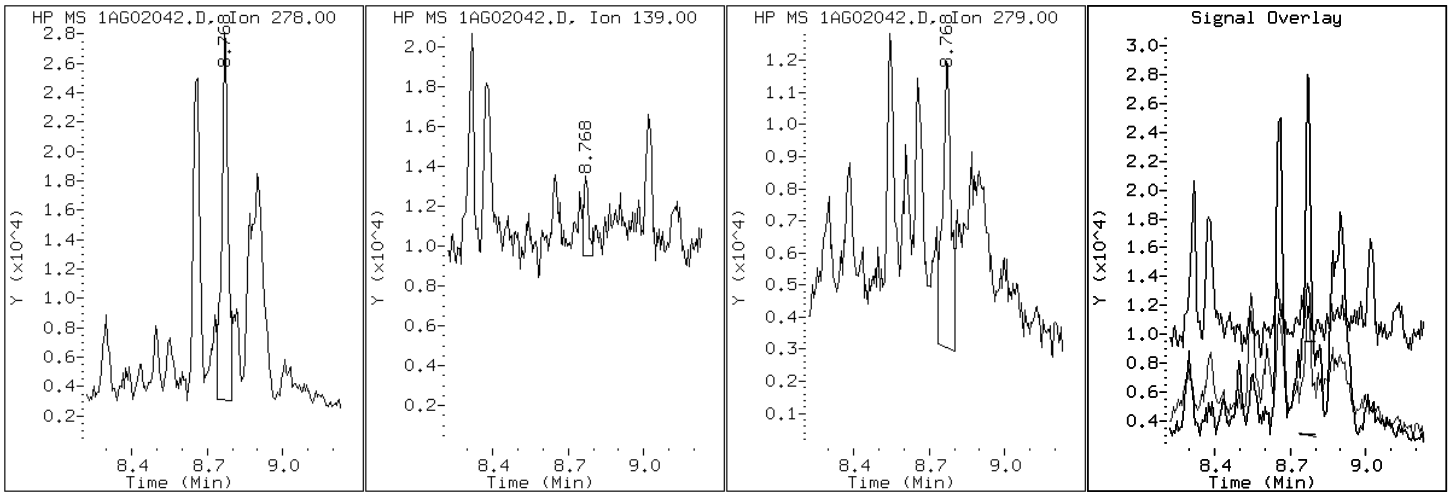
Client ID: CV1363AC-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-2-a

Operator: SCC

26 Dibenzo(a,h)anthracene



Data File: 1AG02042.D

Date: 02-JUL-2013 21:31

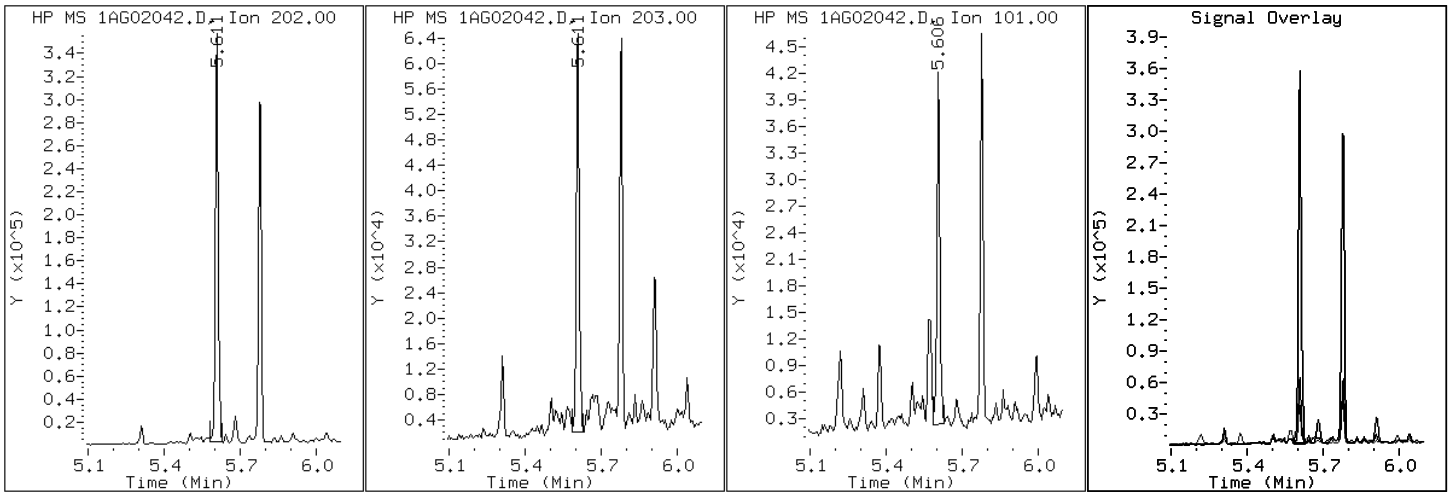
Client ID: CV1363AC-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-2-a

Operator: SCC

16 Fluoranthene



Data File: 1AG02042.D

Date: 02-JUL-2013 21:31

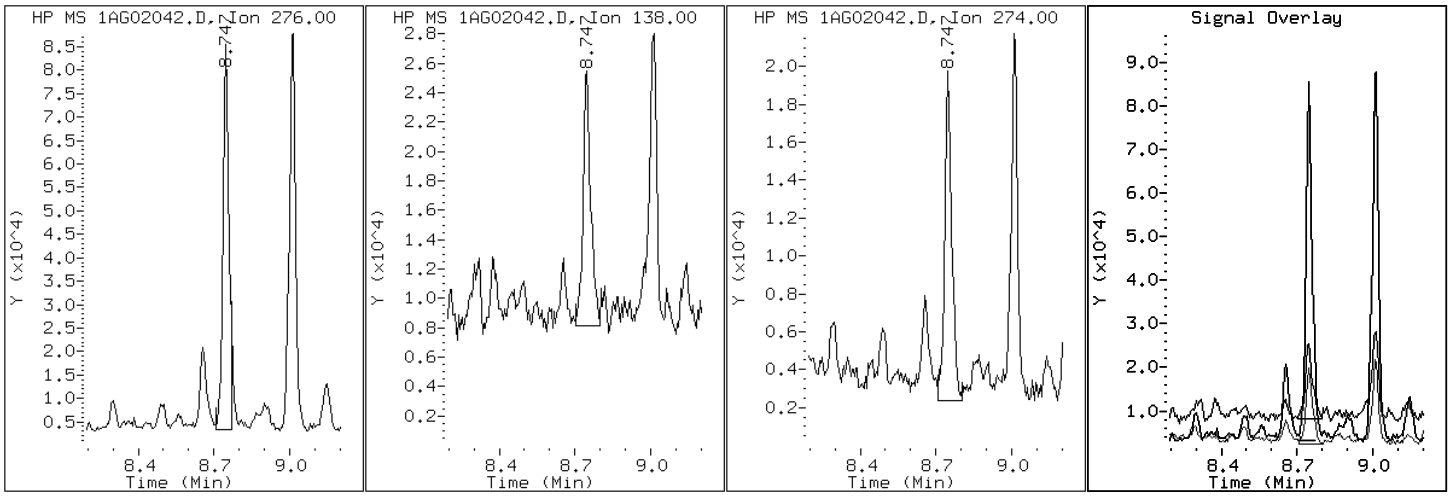
Client ID: CV1363AC-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-2-a

Operator: SCC

25 Indeno(1,2,3-cd)pyrene



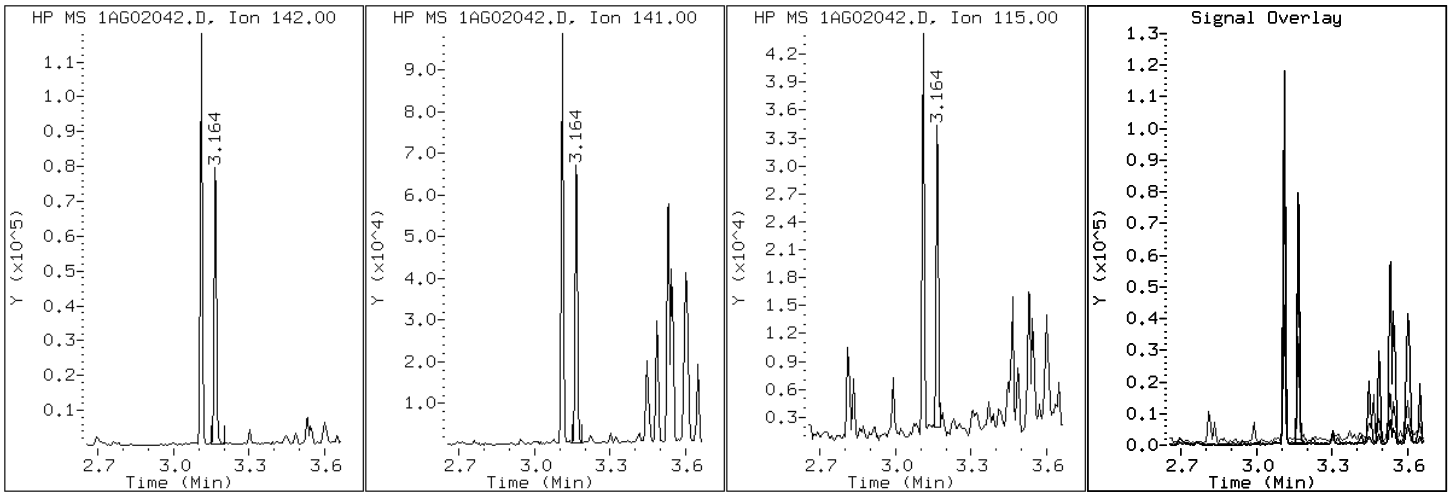
Data File: 1AG02042.D

Date: 02-JUL-2013 21:31

Client ID: CV1363AC-GS Instrument: BSMA5973.i

Sample Info: 680-91719-a-2-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1AG02042.D

Date: 02-JUL-2013 21:31

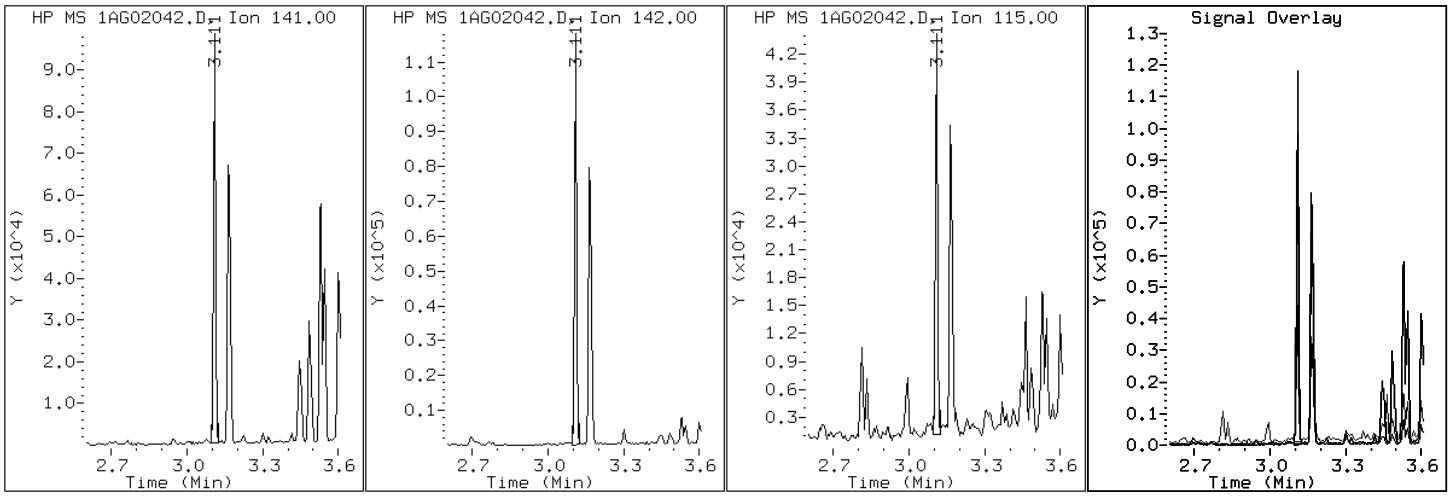
Client ID: CV1363AC-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-2-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AG02042.D

Date: 02-JUL-2013 21:31

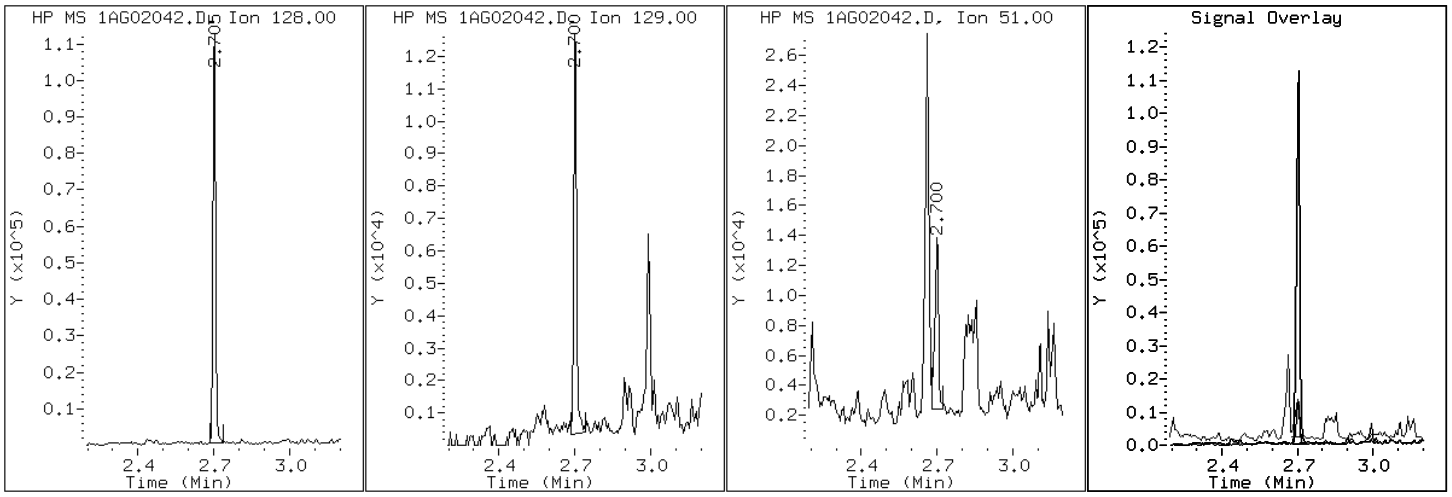
Client ID: CV1363AC-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-2-a

Operator: SCC

2 Naphthalene



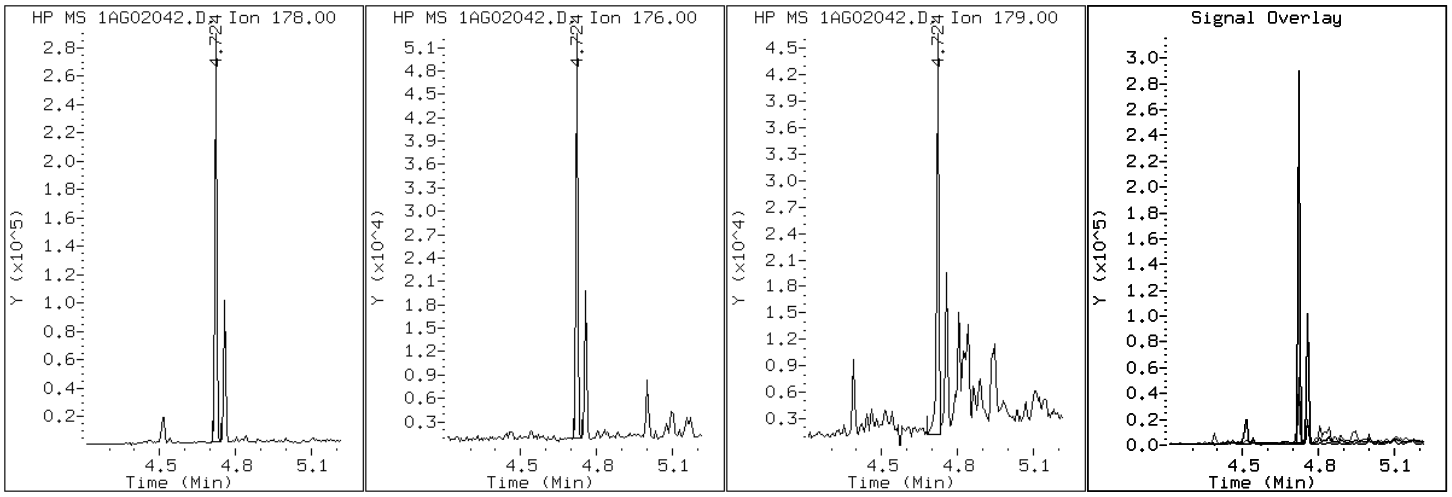
Data File: 1AG02042.D

Date: 02-JUL-2013 21:31

Client ID: CV1363AC-GS Instrument: BSMA5973.i

Sample Info: 680-91719-a-2-a Operator: SCC

12 Phenanthrene



Data File: 1AG02042.D

Date: 02-JUL-2013 21:31

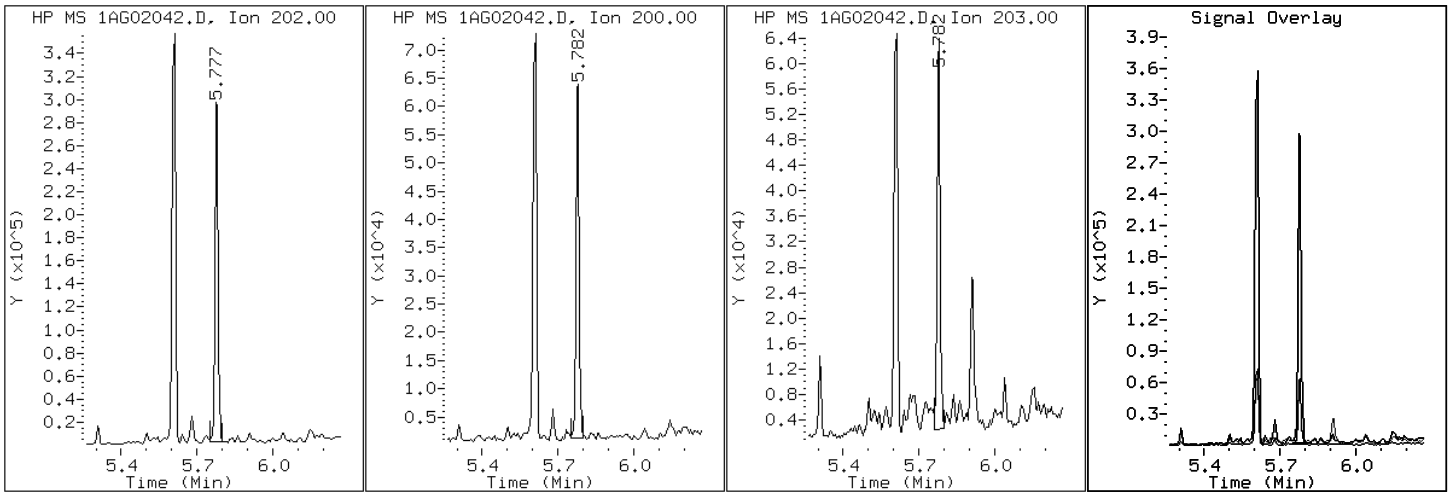
Client ID: CV1363AC-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-2-a

Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG02042.D
Inj. Date and Time: 02-JUL-2013 21:31
Instrument ID: BSMA5973.i
Client ID: CV1363AC-GS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/03/2013

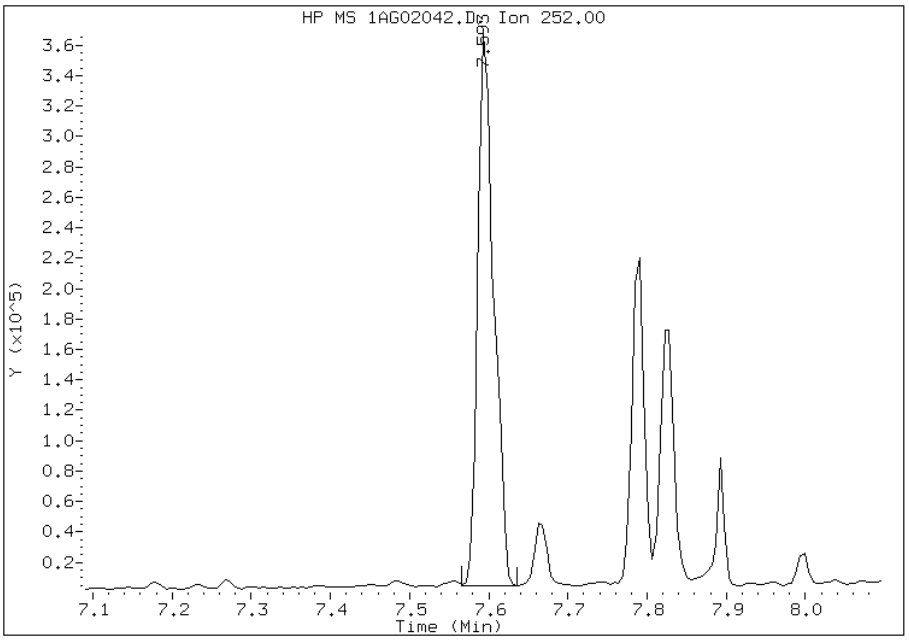
Processing Integration Results

RT: 7.59

Response: 503982

Amount: 4

Conc: 350



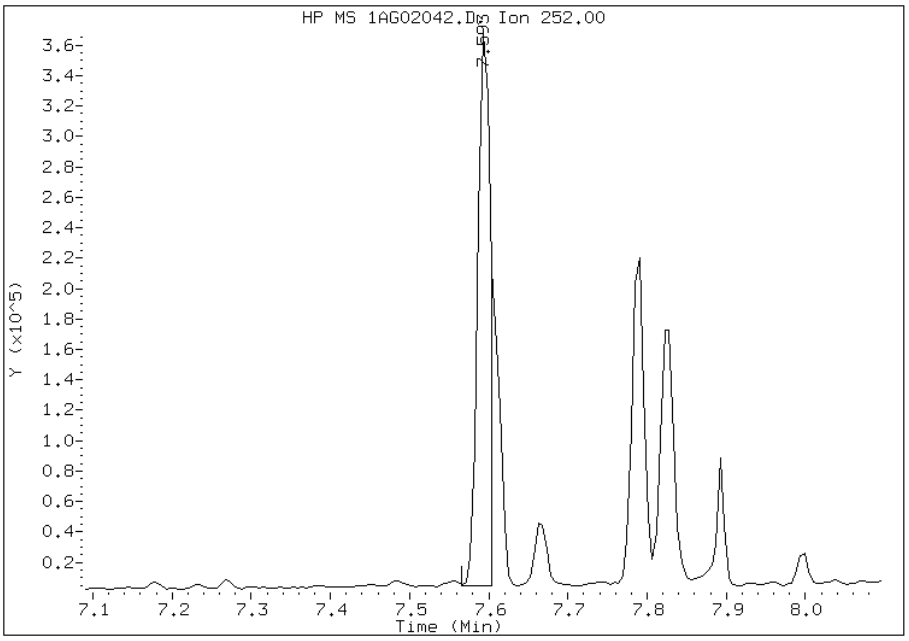
Manual Integration Results

RT: 7.59

Response: 400738

Amount: 3

Conc: 279



Manually Integrated By: cantins
Modification Date: 03-Jul-2013 15:53
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG02042.D
Inj. Date and Time: 02-JUL-2013 21:31
Instrument ID: BSMA5973.i
Client ID: CV1363AC-GS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/03/2013

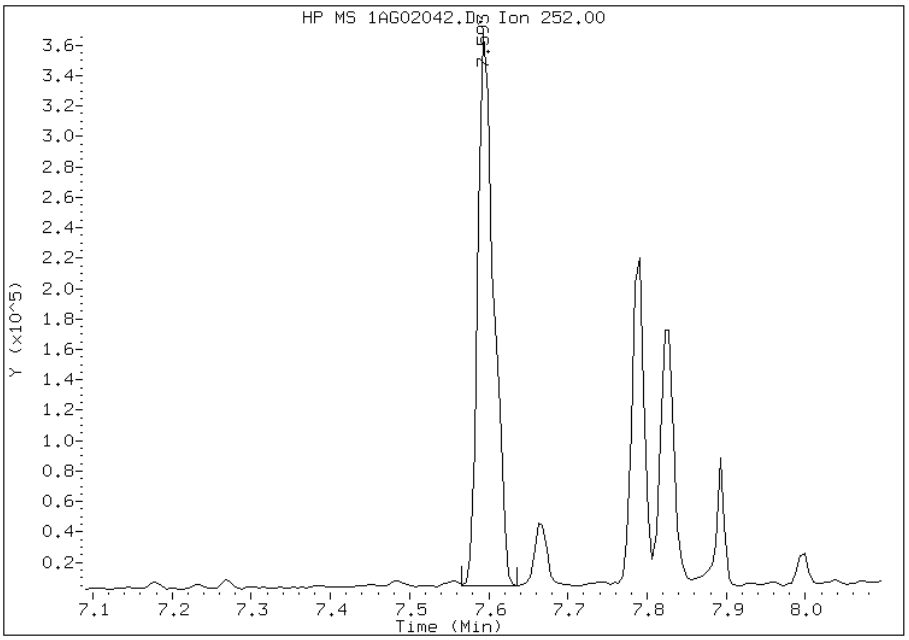
Processing Integration Results

RT: 7.59

Response: 504000

Amount: 4

Conc: 299



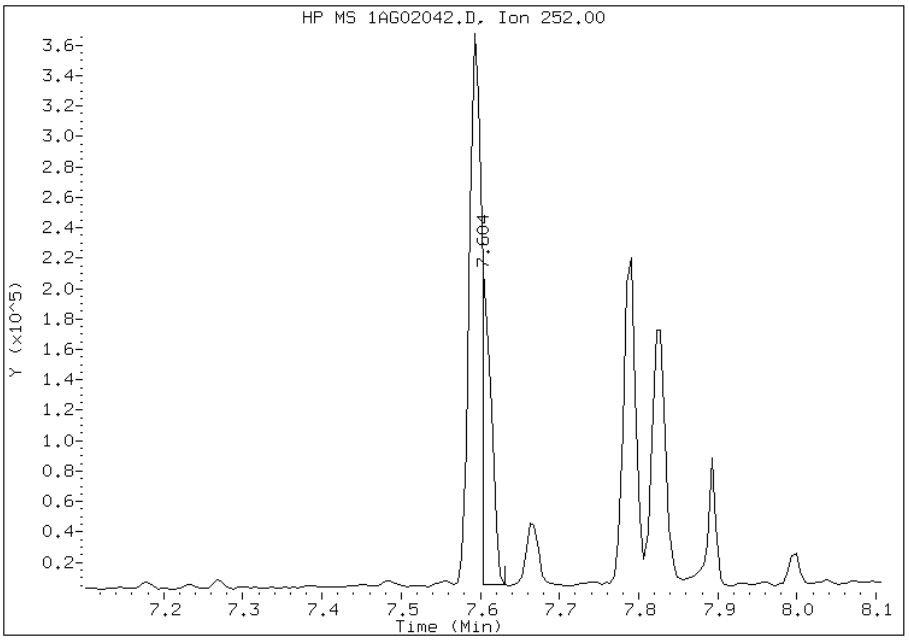
Manual Integration Results

RT: 7.60

Response: 169195

Amount: 1

Conc: 106



Manually Integrated By: cantins
Modification Date: 03-Jul-2013 15:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG02042.D
Inj. Date and Time: 02-JUL-2013 21:31
Instrument ID: BSMA5973.i
Client ID: CV1363AC-GS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/03/2013

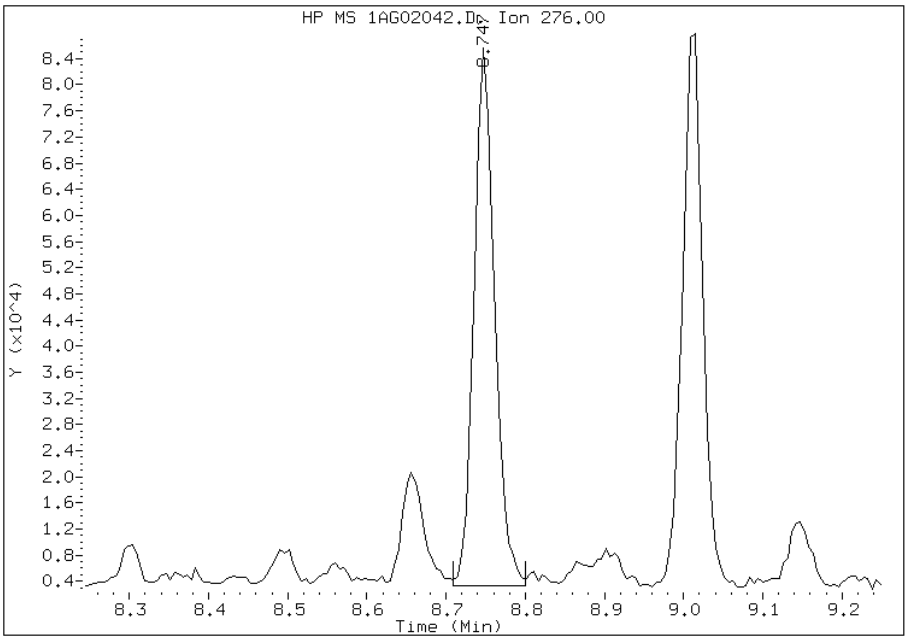
Processing Integration Results

RT: 8.75

Response: 147489

Amount: 2

Conc: 123



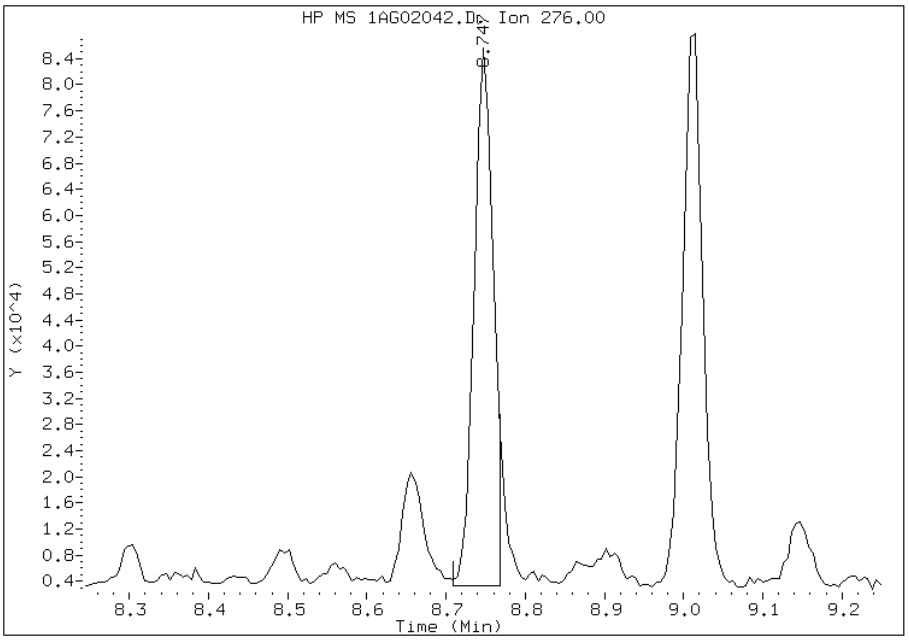
Manual Integration Results

RT: 8.75

Response: 138274

Amount: 1

Conc: 115



Manually Integrated By: cantins
Modification Date: 03-Jul-2013 15:54
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363AD-GS | Lab Sample ID: 680-91719-3

Matrix: Solid | Lab File ID: 1AG02043.D

Analysis Method: 8270C LL | Date Collected: 06/24/2013 14:05

Extract. Method: 3546 | Date Extracted: 07/01/2013 13:43

Sample wt/vol: 15.07(g) | Date Analyzed: 07/02/2013 21:46

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 35.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139030 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	31
208-96-8	Acenaphthylene	66		62	7.8
120-12-7	Anthracene	100		13	6.5
56-55-3	Benzo[a]anthracene	170		12	6.1
50-32-8	Benzo[a]pyrene	180		16	8.1
205-99-2	Benzo[b]fluoranthene	370		19	9.5
191-24-2	Benzo[g,h,i]perylene	130		31	6.8
207-08-9	Benzo[k]fluoranthene	120		12	5.6
218-01-9	Chrysene	310		14	7.0
53-70-3	Dibenz(a,h)anthracene	48		31	6.4
206-44-0	Fluoranthene	320		31	6.2
86-73-7	Fluorene	31	U	31	6.4
193-39-5	Indeno[1,2,3-cd]pyrene	130		31	11
90-12-0	1-Methylnaphthalene	91		62	6.8
91-57-6	2-Methylnaphthalene	110		62	11
91-20-3	Naphthalene	140		62	6.8
85-01-8	Phenanthrene	220		12	6.1
129-00-0	Pyrene	220		31	5.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	38		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\1AG02043.D
Lab Smp Id: 680-91719-A-3-A Client Smp ID: CV1363AD-GS
Inj Date : 02-JUL-2013 21:46
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-a-3-a
Misc Info : 680-91719-A-3-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\a-bFASTPAHi-m.m
Meth Date : 02-Jul-2013 11:39 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 43
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.070	Weight Extracted
M	35.842	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.695	2.683	(1.000)	2584066	40.0000	
* 7 Acenaphthene-d10	164	3.731	3.719	(1.000)	1460904	40.0000	
* 11 Phenanthrene-d10	188	4.714	4.697	(1.000)	2309185	40.0000	
$ 15 o-Terphenyl	230	5.008	4.996	(1.062)	185543	3.82197	395.2940
* 19 Chrysene-d12	240	6.782	6.748	(1.000)	3347234	40.0000	(H)
* 24 Perylene-d12	264	7.887	7.849	(1.000)	3699416	40.0000	(H)
2 Naphthalene	128	2.706	2.699	(1.004)	90691	1.34418	139.0243(Q)
3 2-Methylnaphthalene	141	3.112	3.105	(1.155)	50076	1.08996	112.7313
4 1-Methylnaphthalene	142	3.170	3.158	(1.176)	48142	0.87994	91.0096
6 Acenaphthylene	152	3.646	3.634	(0.977)	50614	0.64220	66.4204
12 Phenanthrene	178	4.725	4.713	(1.002)	178552	2.13060	220.3613
13 Anthracene	178	4.762	4.745	(1.010)	78334	0.97727	101.0759
16 Fluoranthene	202	5.612	5.594	(1.190)	311738	3.12886	323.6083
17 Pyrene	202	5.783	5.765	(0.853)	286452	2.12267	219.5412(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
18 Benzo(a)anthracene	228	6.771	6.738	(0.998)	191421	1.60359	165.8546(H)
20 Chrysene	228	6.792	6.764	(1.002)	326638	2.97925	308.1345(H)
21 Benzo(b)fluoranthene	252	7.604	7.571	(0.964)	423507	3.61701	374.0961(MH)
22 Benzo(k)fluoranthene	252	7.615	7.592	(0.965)	142450	1.12652	116.5124(QMH)
23 Benzo(a)pyrene	252	7.834	7.801	(0.993)	193637	1.76954	183.0183(H)
25 Indeno(1,2,3-cd)pyrene	276	8.769	8.698	(1.112)	119350	1.22180	126.3669(MH)
26 Dibenzo(a,h)anthracene	278	8.790	8.725	(1.114)	44606	0.46083	47.6617(H)
27 Benzo(g,h,i)perylene	276	9.031	8.949	(1.145)	132022	1.26922	131.2709(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG02043.D

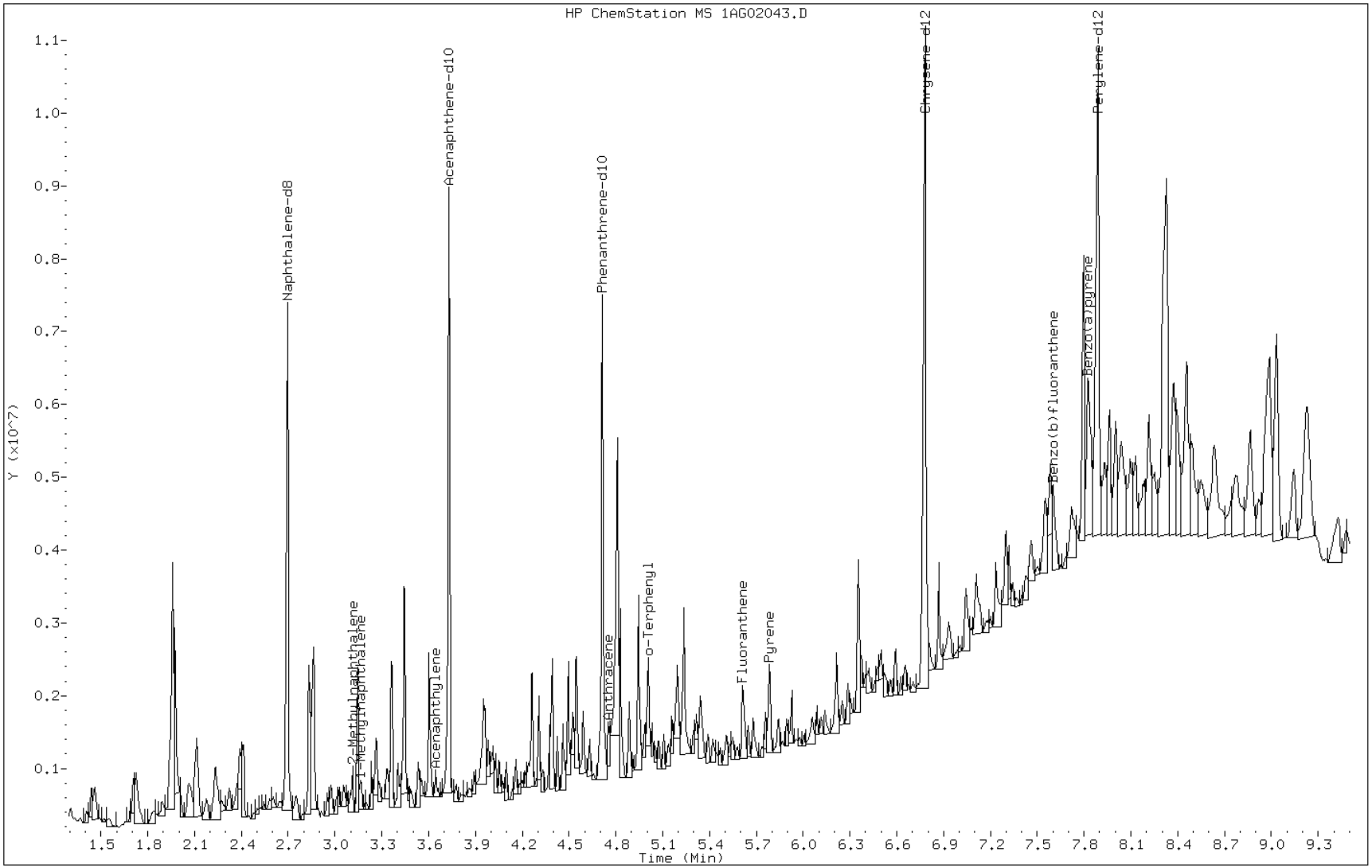
Date: 02-JUL-2013 21:46

Client ID: CV1363AD-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-3-a

Operator: SCC



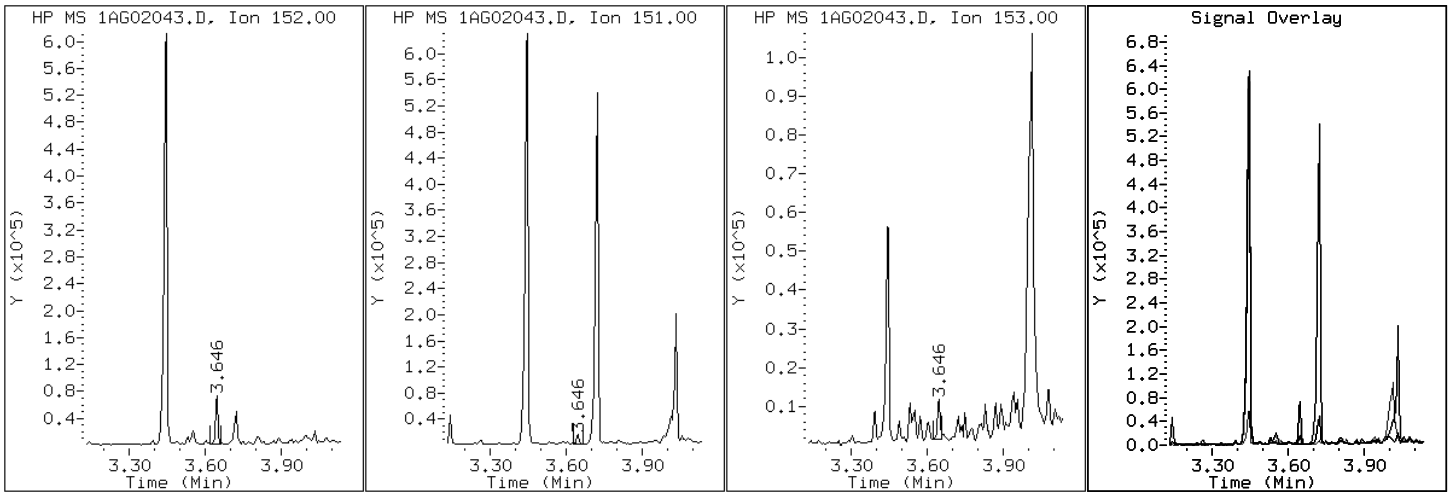
Data File: 1AG02043.D

Date: 02-JUL-2013 21:46

Client ID: CV1363AD-GS Instrument: BSMA5973.i

Sample Info: 680-91719-a-3-a Operator: SCC

6 Acenaphthylene



Data File: 1AG02043.D

Date: 02-JUL-2013 21:46

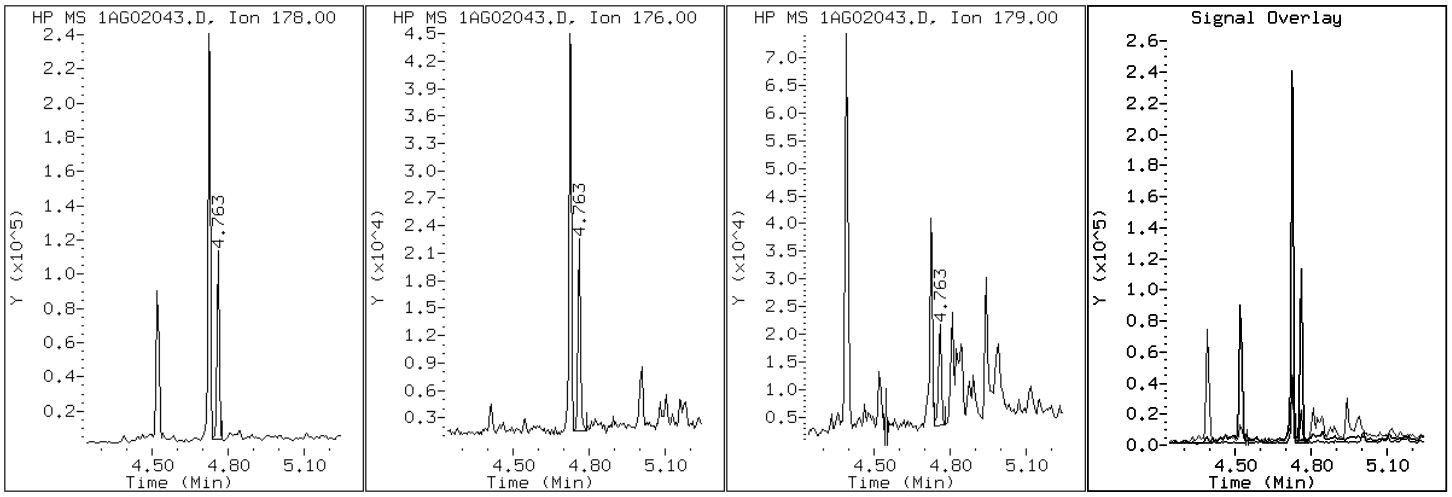
Client ID: CV1363AD-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-3-a

Operator: SCC

13 Anthracene



Data File: 1AG02043.D

Date: 02-JUL-2013 21:46

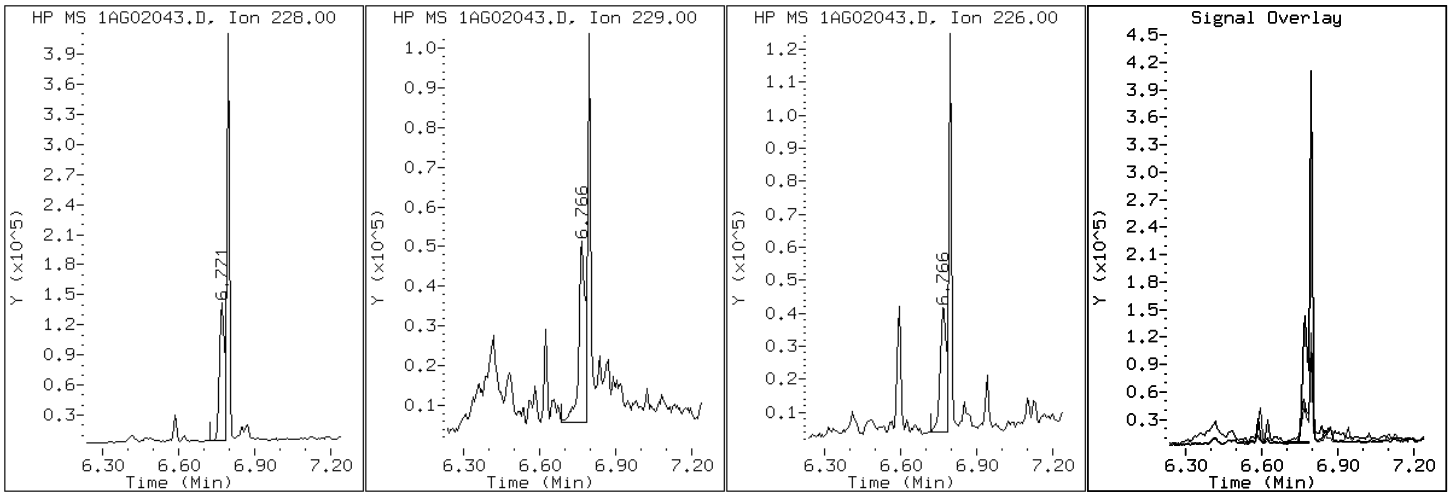
Client ID: CV1363AD-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-3-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1AG02043.D

Date: 02-JUL-2013 21:46

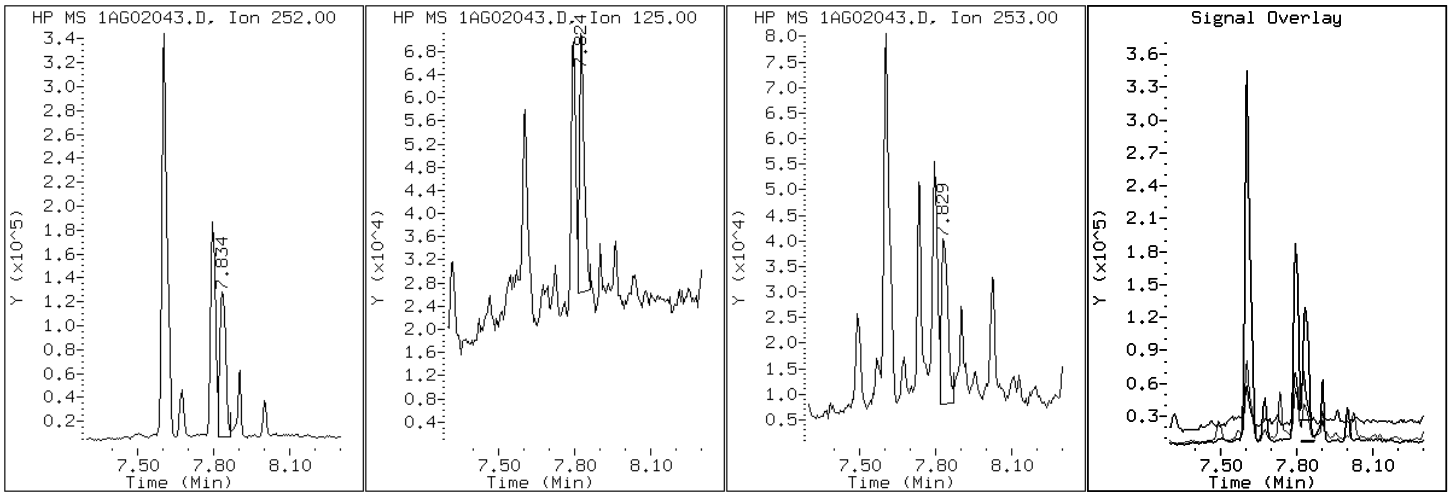
Client ID: CV1363AD-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-3-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1AG02043.D

Date: 02-JUL-2013 21:46

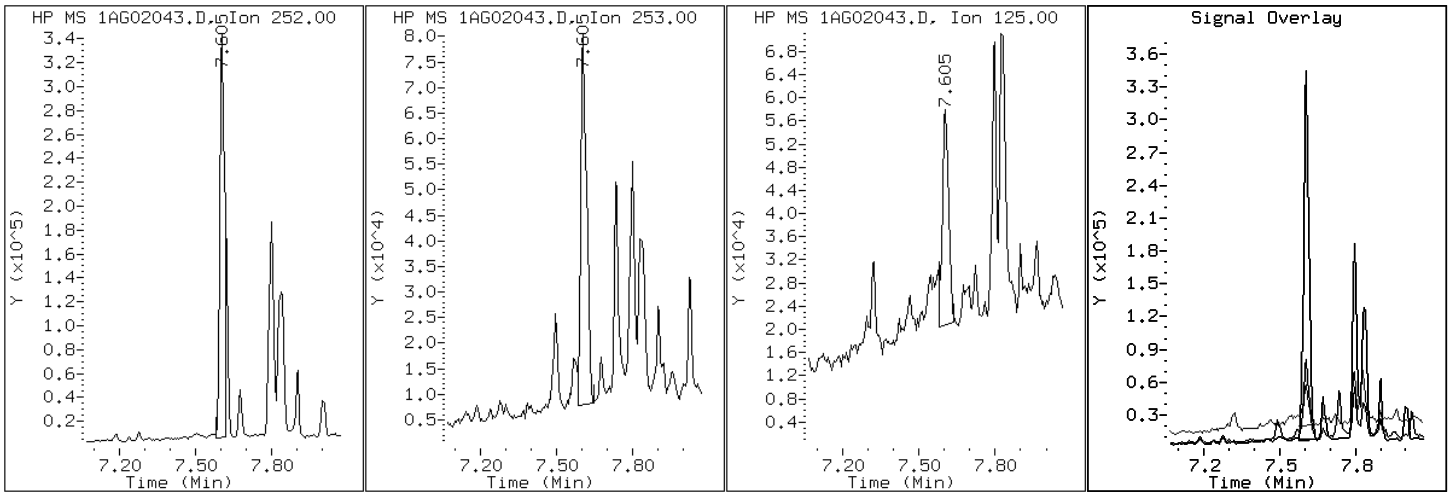
Client ID: CV1363AD-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-3-a

Operator: SCC

21 Benzo(b)fluoranthene



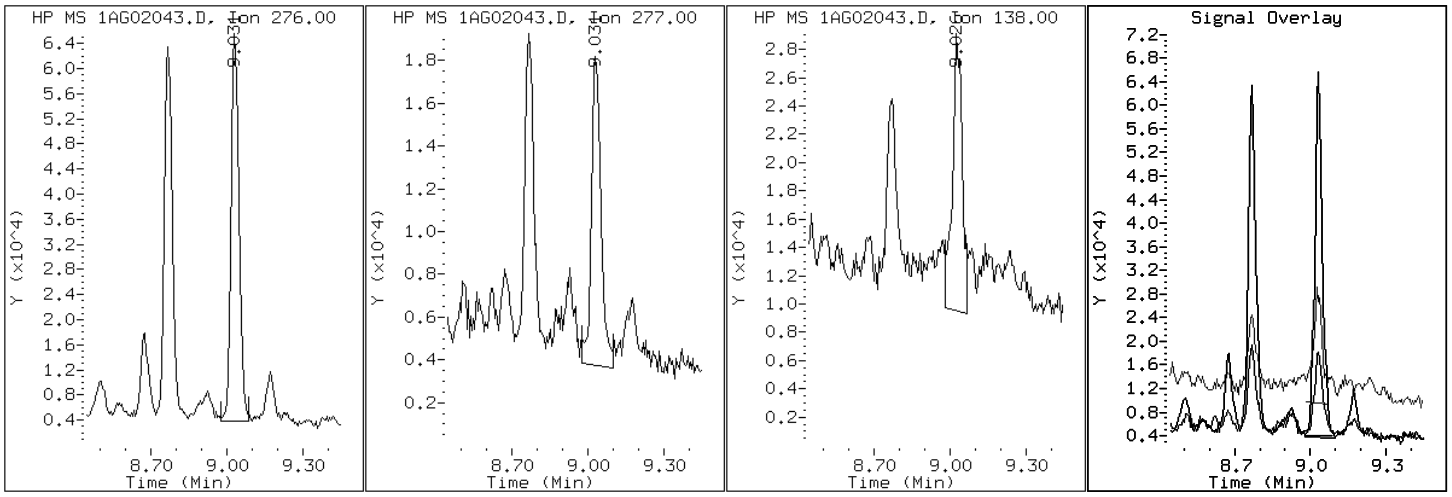
Data File: 1AG02043.D

Date: 02-JUL-2013 21:46

Client ID: CV1363AD-GS Instrument: BSMA5973.i

Sample Info: 680-91719-a-3-a Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1AG02043.D

Date: 02-JUL-2013 21:46

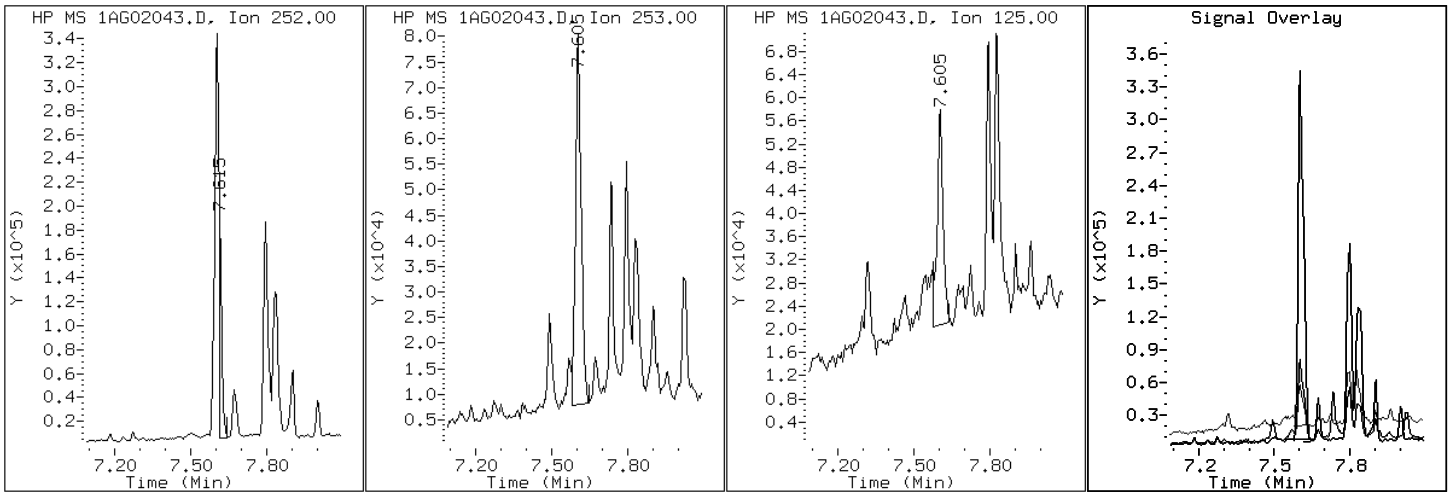
Client ID: CV1363AD-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-3-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1AG02043.D

Date: 02-JUL-2013 21:46

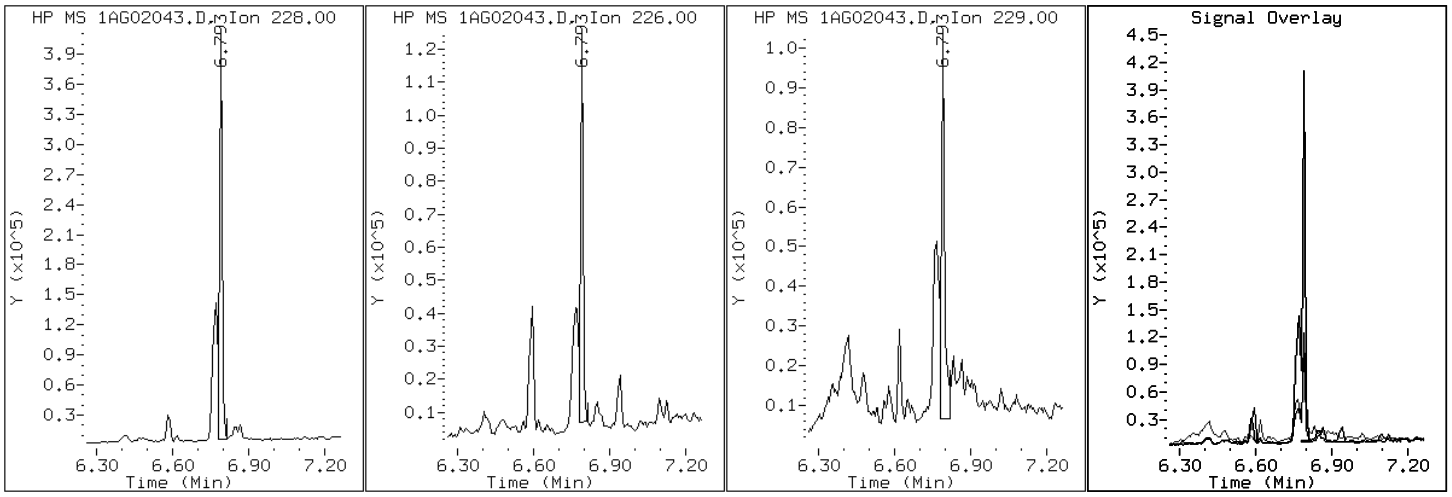
Client ID: CV1363AD-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-3-a

Operator: SCC

20 Chrysene



Data File: 1AG02043.D

Date: 02-JUL-2013 21:46

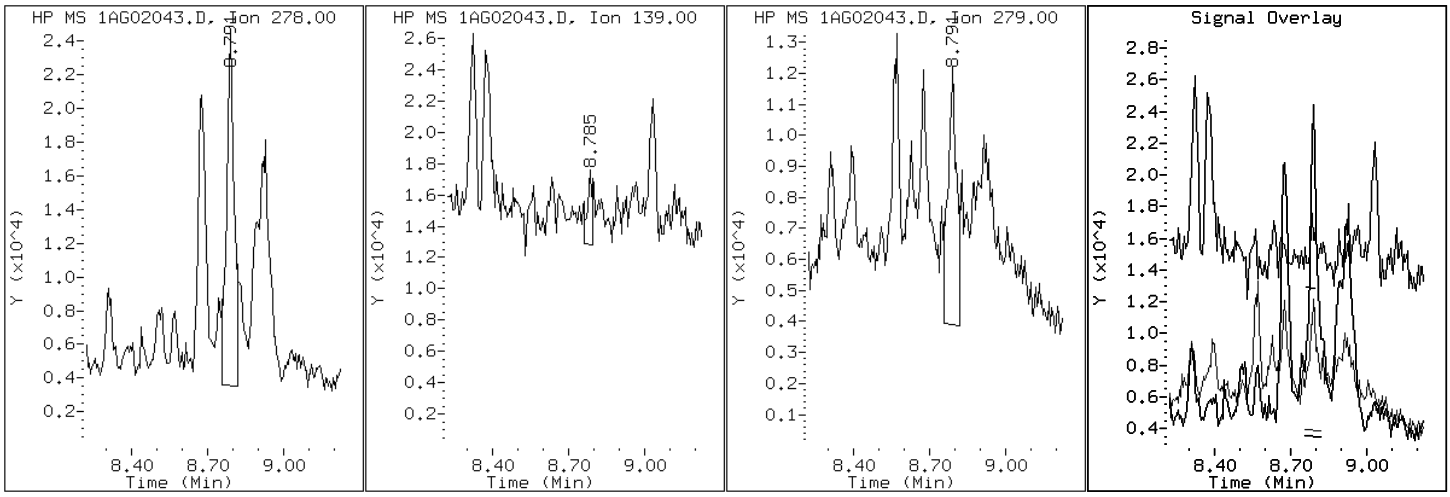
Client ID: CV1363AD-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-3-a

Operator: SCC

26 Dibenzo(a,h)anthracene



Data File: 1AG02043.D

Date: 02-JUL-2013 21:46

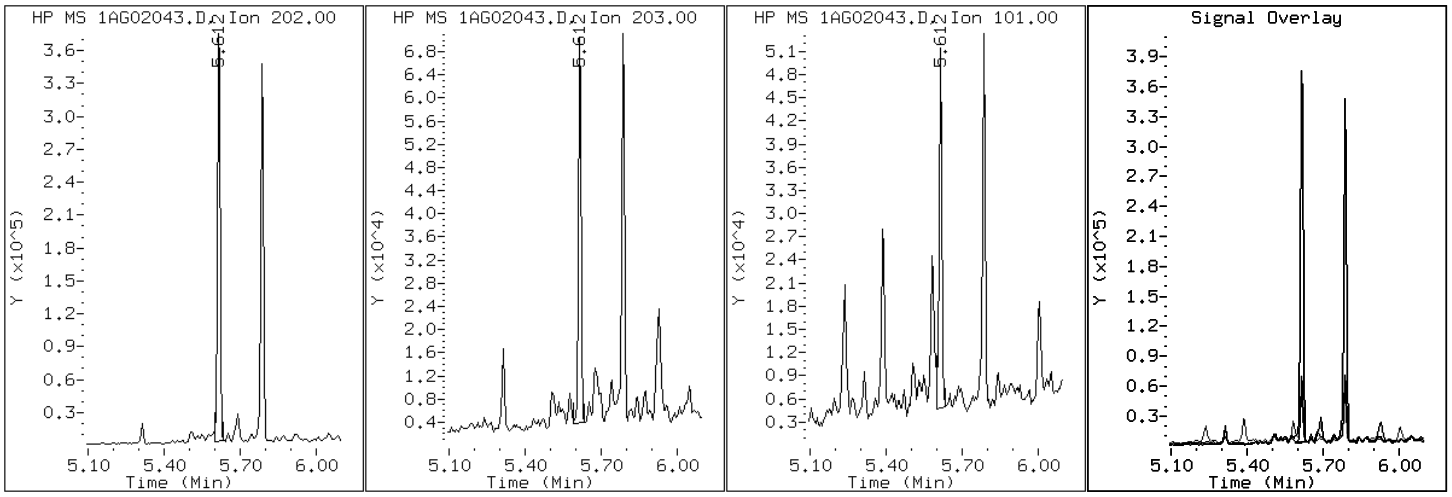
Client ID: CV1363AD-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-3-a

Operator: SCC

16 Fluoranthene



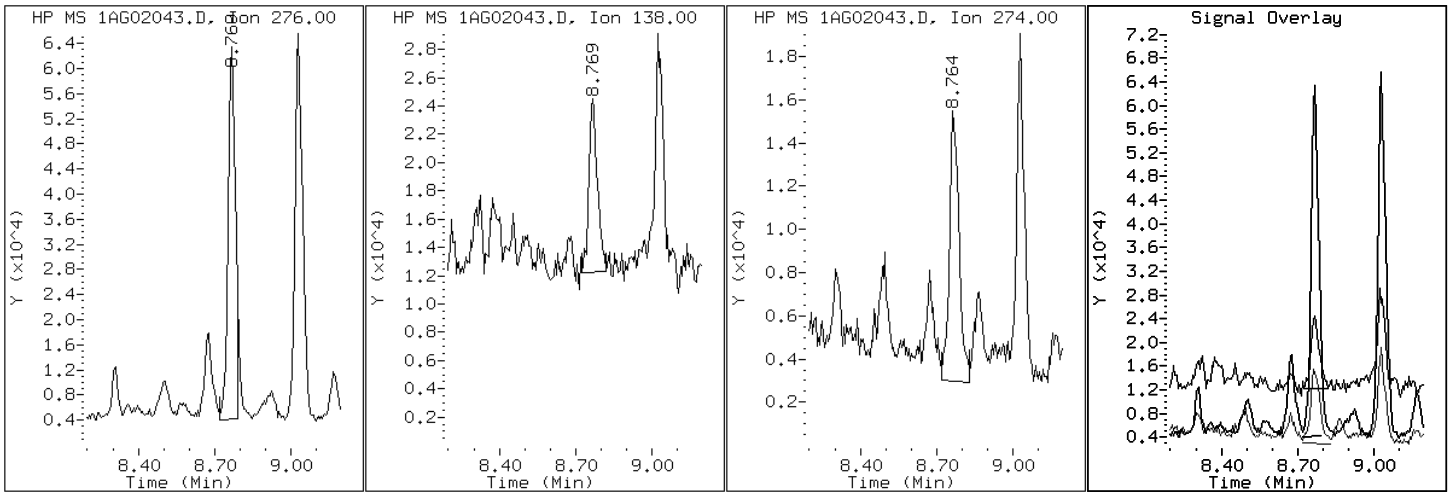
Data File: 1AG02043.D

Date: 02-JUL-2013 21:46

Client ID: CV1363AD-GS Instrument: BSMA5973.i

Sample Info: 680-91719-a-3-a Operator: SCC

25 Indeno(1,2,3-cd)pyrene



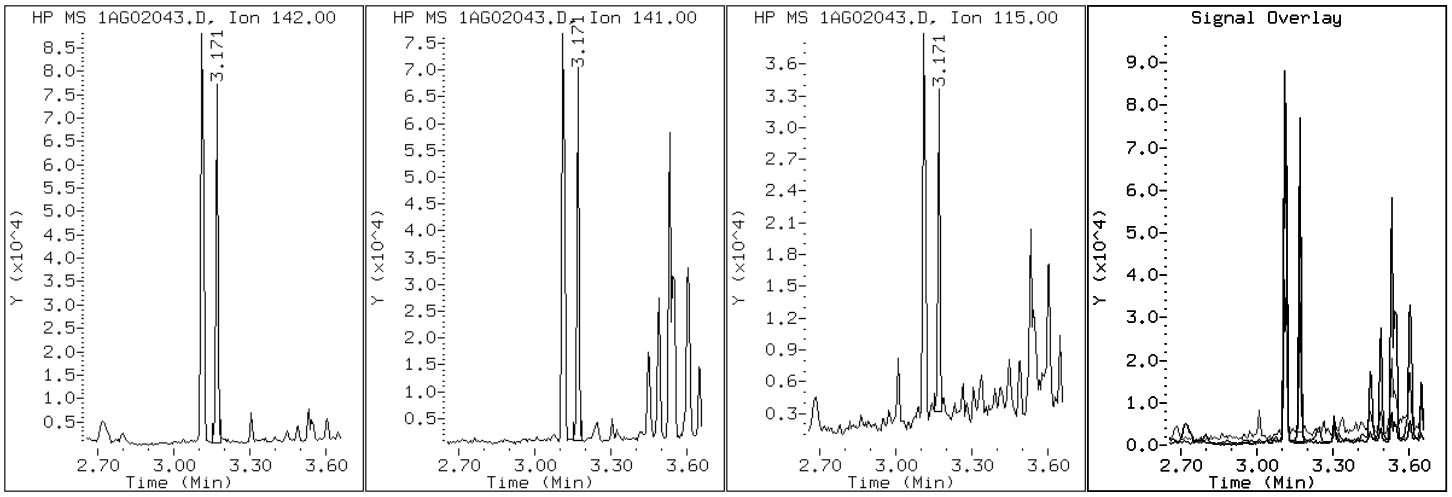
Data File: 1AG02043.D

Date: 02-JUL-2013 21:46

Client ID: CV1363AD-GS Instrument: BSMA5973.i

Sample Info: 680-91719-a-3-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1AG02043.D

Date: 02-JUL-2013 21:46

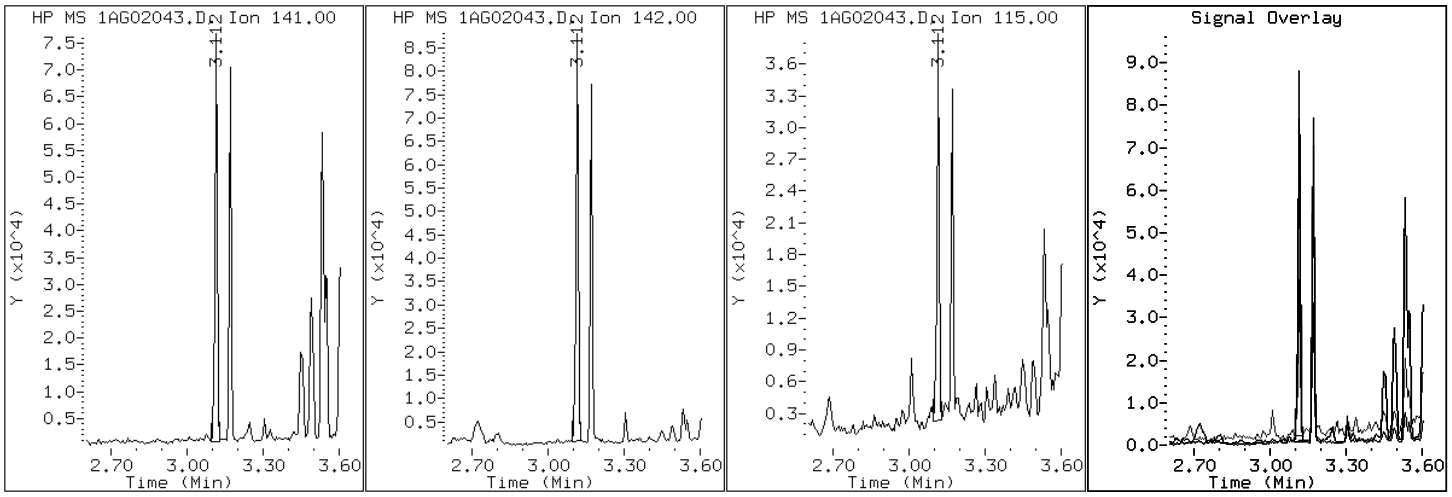
Client ID: CV1363AD-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-3-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AG02043.D

Date: 02-JUL-2013 21:46

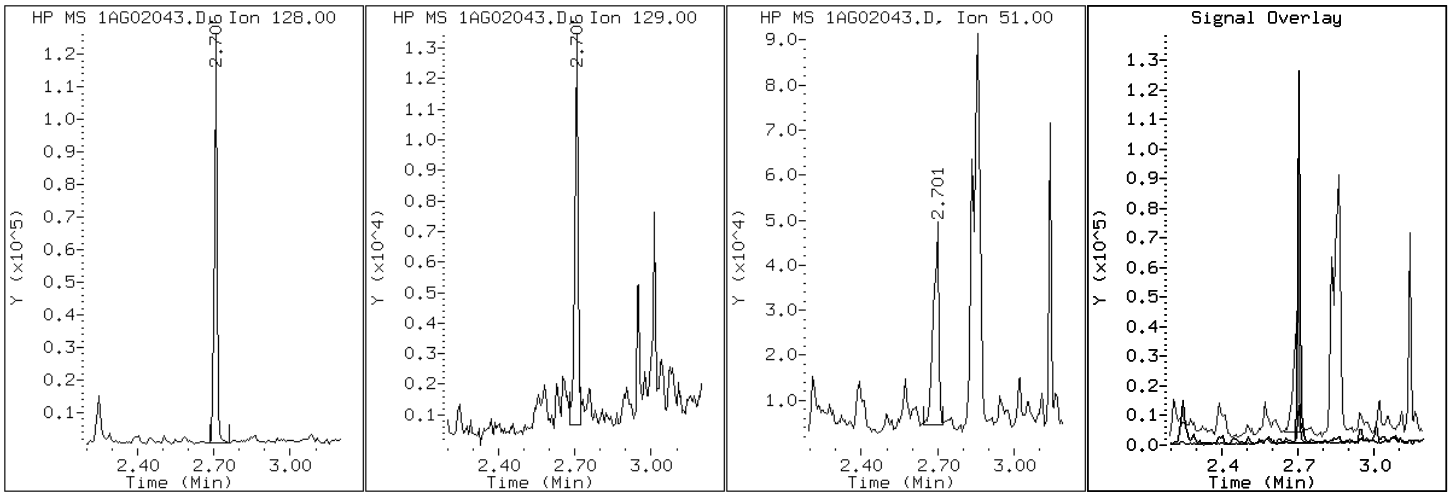
Client ID: CV1363AD-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-3-a

Operator: SCC

2 Naphthalene



Data File: 1AG02043.D

Date: 02-JUL-2013 21:46

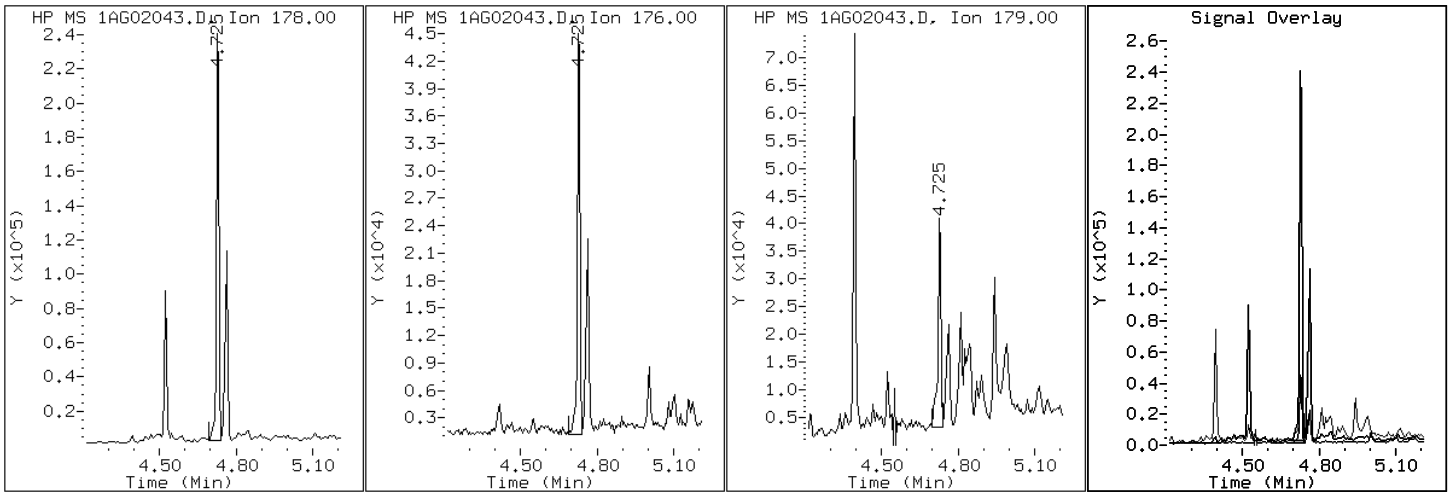
Client ID: CV1363AD-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-3-a

Operator: SCC

12 Phenanthrene



Data File: 1AG02043.D

Date: 02-JUL-2013 21:46

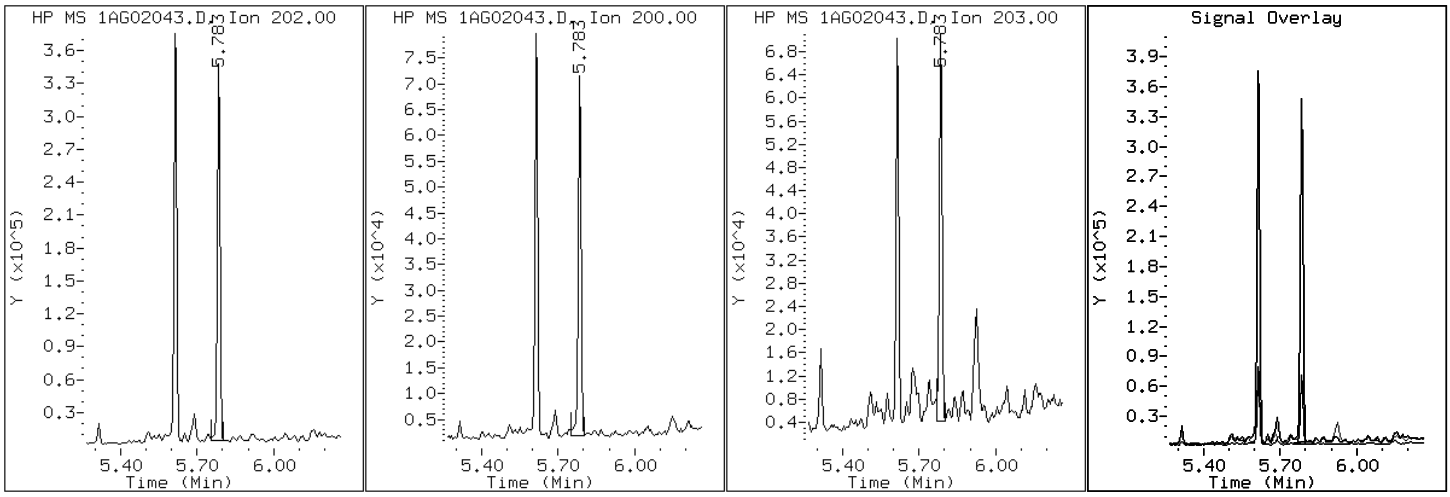
Client ID: CV1363AD-GS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-3-a

Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG02043.D
Inj. Date and Time: 02-JUL-2013 21:46
Instrument ID: BSMA5973.i
Client ID: CV1363AD-GS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/03/2013

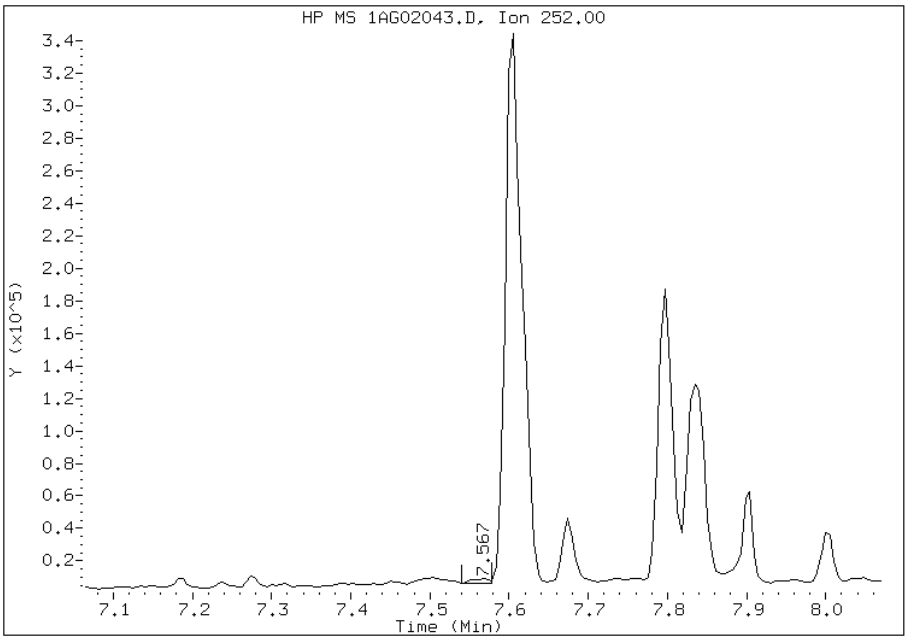
Processing Integration Results

RT: 7.57

Response: 4155

Amount: 0

Conc: 4



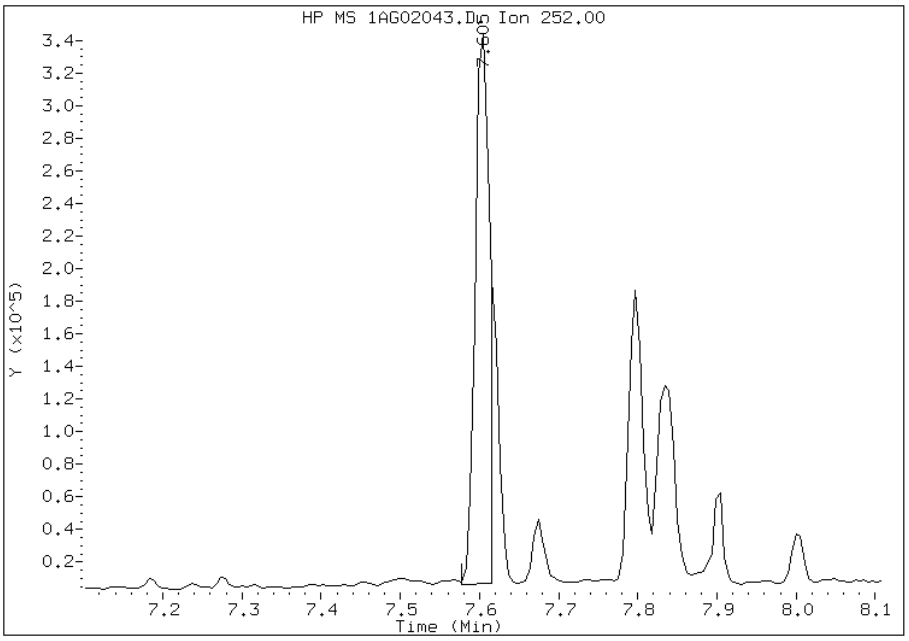
Manual Integration Results

RT: 7.60

Response: 423507

Amount: 4

Conc: 374



Manually Integrated By: cantins
Modification Date: 03-Jul-2013 15:55
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG02043.D
Inj. Date and Time: 02-JUL-2013 21:46
Instrument ID: BSMA5973.i
Client ID: CV1363AD-GS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/03/2013

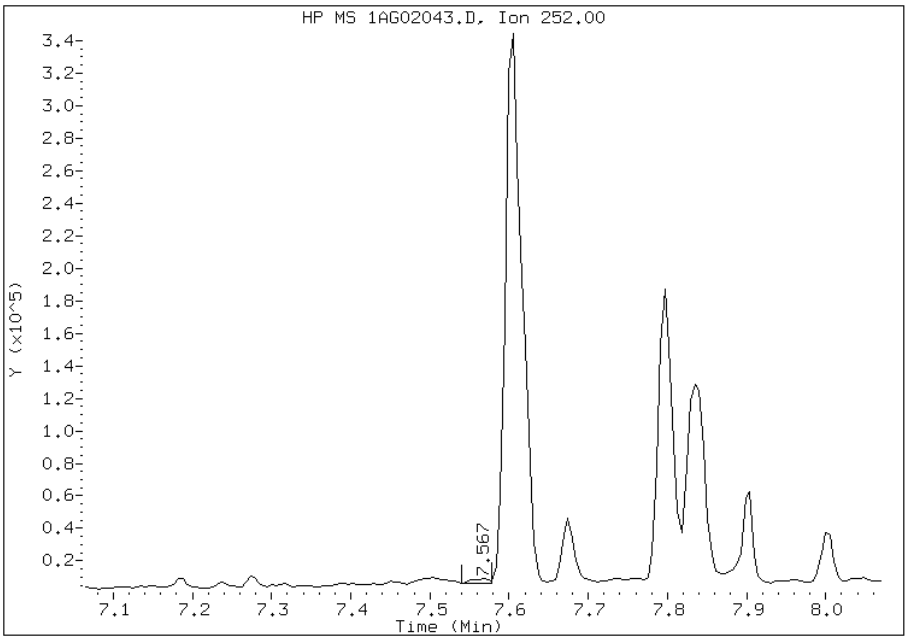
Processing Integration Results

RT: 7.57

Response: 4155

Amount: 0

Conc: 22



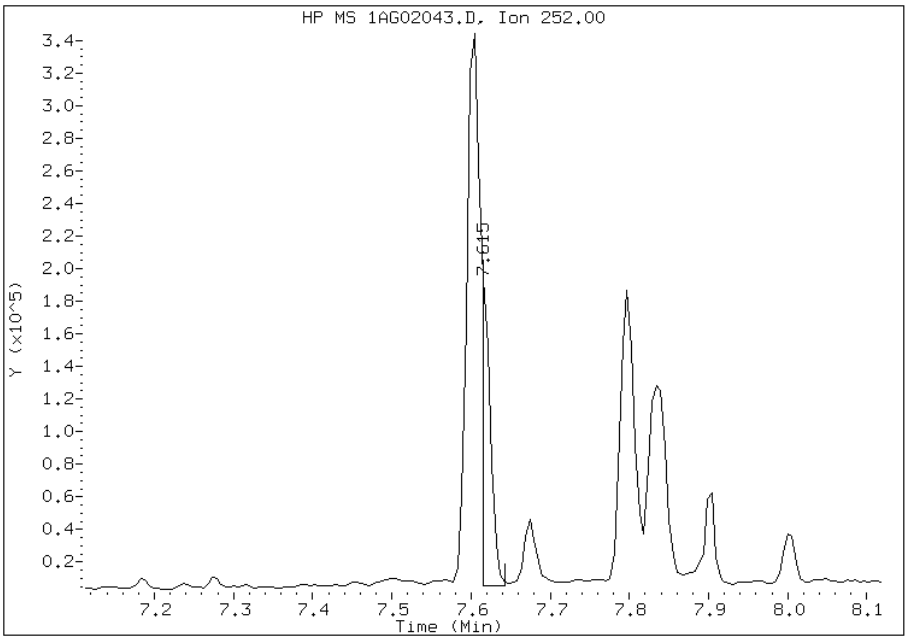
Manual Integration Results

RT: 7.62

Response: 142450

Amount: 1

Conc: 117



Manually Integrated By: cantins
Modification Date: 03-Jul-2013 15:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG02043.D
Inj. Date and Time: 02-JUL-2013 21:46
Instrument ID: BSMA5973.i
Client ID: CV1363AD-GS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/03/2013

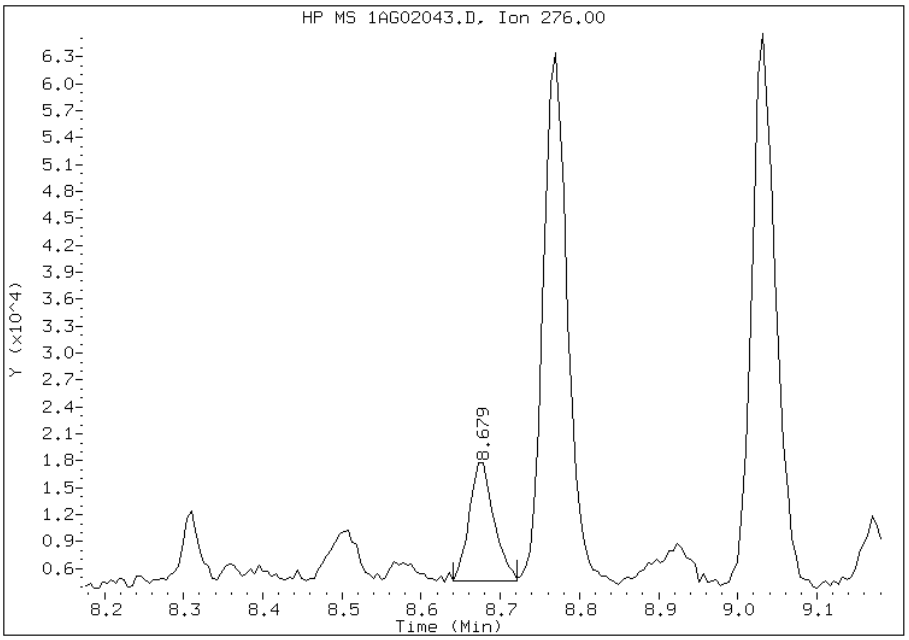
Processing Integration Results

RT: 8.68

Response: 28223

Amount: 0

Conc: 30



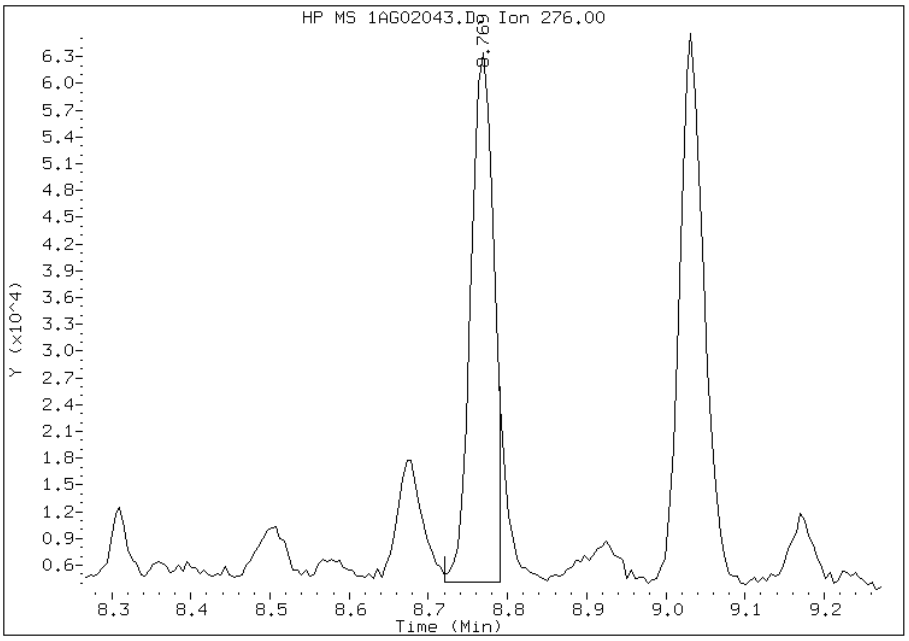
Manual Integration Results

RT: 8.77

Response: 119350

Amount: 1

Conc: 126



Manually Integrated By: cantins
Modification Date: 03-Jul-2013 15:55
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363A-CS | Lab Sample ID: 680-91719-4

Matrix: Solid | Lab File ID: 1AG02044.D

Analysis Method: 8270C LL | Date Collected: 06/24/2013 13:00

Extract. Method: 3546 | Date Extracted: 07/01/2013 13:43

Sample wt/vol: 15.04(g) | Date Analyzed: 07/02/2013 22:02

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139030 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	96
208-96-8	Acenaphthylene	120	J	190	24
120-12-7	Anthracene	140		40	20
56-55-3	Benzo[a]anthracene	220		39	19
50-32-8	Benzo[a]pyrene	240		50	25
205-99-2	Benzo[b]fluoranthene	460		59	29
191-24-2	Benzo[g,h,i]perylene	170		96	21
207-08-9	Benzo[k]fluoranthene	170		39	17
218-01-9	Chrysene	340		43	22
53-70-3	Dibenz(a,h)anthracene	57	J	96	20
206-44-0	Fluoranthene	400		96	19
86-73-7	Fluorene	96	U	96	20
193-39-5	Indeno[1,2,3-cd]pyrene	170		96	34
90-12-0	1-Methylnaphthalene	150	J	190	21
91-57-6	2-Methylnaphthalene	160	J	190	34
91-20-3	Naphthalene	130	J	190	21
85-01-8	Phenanthrene	290		39	19
129-00-0	Pyrene	260		96	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	47		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\1AG02044.D
Lab Smp Id: 680-91719-A-4-A Client Smp ID: CV1363A-CS
Inj Date : 02-JUL-2013 22:02
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-a-4-a
Misc Info : 680-91719-A-4-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\a-bFASTPAHi-m.m
Meth Date : 02-Jul-2013 11:39 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 44
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	17.219	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.699	2.683	(1.000)	2672681	40.0000	
* 7 Acenaphthene-d10	164	3.735	3.719	(1.000)	1504264	40.0000	
* 11 Phenanthrene-d10	188	4.718	4.697	(1.000)	2329861	40.0000	
$ 15 o-Terphenyl	230	5.006	4.996	(1.061)	58614	1.18653	381.2057
* 19 Chrysene-d12	240	6.780	6.748	(1.000)	3252117	40.0000	
* 24 Perylene-d12	264	7.886	7.849	(1.000)	3493357	40.0000	(H)
2 Naphthalene	128	2.709	2.699	(1.004)	27524	0.39442	126.7186
3 2-Methylnaphthalene	141	3.115	3.105	(1.154)	20610	0.50024	160.7144
4 1-Methylnaphthalene	142	3.169	3.158	(1.174)	23270	0.46022	147.8577(H)
6 Acenaphthylene	152	3.644	3.634	(0.976)	16165	0.35832	115.1182(H)
12 Phenanthrene	178	4.729	4.713	(1.002)	71227	0.91686	294.5658
13 Anthracene	178	4.761	4.745	(1.009)	23696	0.43222	138.8636(H)
16 Fluoranthene	202	5.615	5.594	(1.190)	116630	1.25471	403.1087
17 Pyrene	202	5.781	5.765	(0.853)	106004	0.80849	259.7481

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
18 Benzo(a)anthracene	228	6.769	6.738	(0.998)	85612	0.68608	220.4215
20 Chrysene	228	6.791	6.764	(1.002)	111238	1.04427	335.5001
21 Benzo(b)fluoranthene	252	7.597	7.571	(0.963)	159195	1.43982	462.5814(MH)
22 Benzo(k)fluoranthene	252	7.608	7.592	(0.965)	50283	0.53276	171.1637(QMH)
23 Benzo(a)pyrene	252	7.827	7.801	(0.993)	78118	0.75599	242.8810(H)
25 Indeno(1,2,3-cd)pyrene	276	8.741	8.698	(1.108)	49842	0.54034	173.5972(MH)
26 Dibenzo(a,h)anthracene	278	8.762	8.725	(1.111)	16111	0.17626	56.6284(H)
27 Benzo(g,h,i)perylene	276	8.992	8.949	(1.140)	53483	0.54450	174.9340(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG02044.D

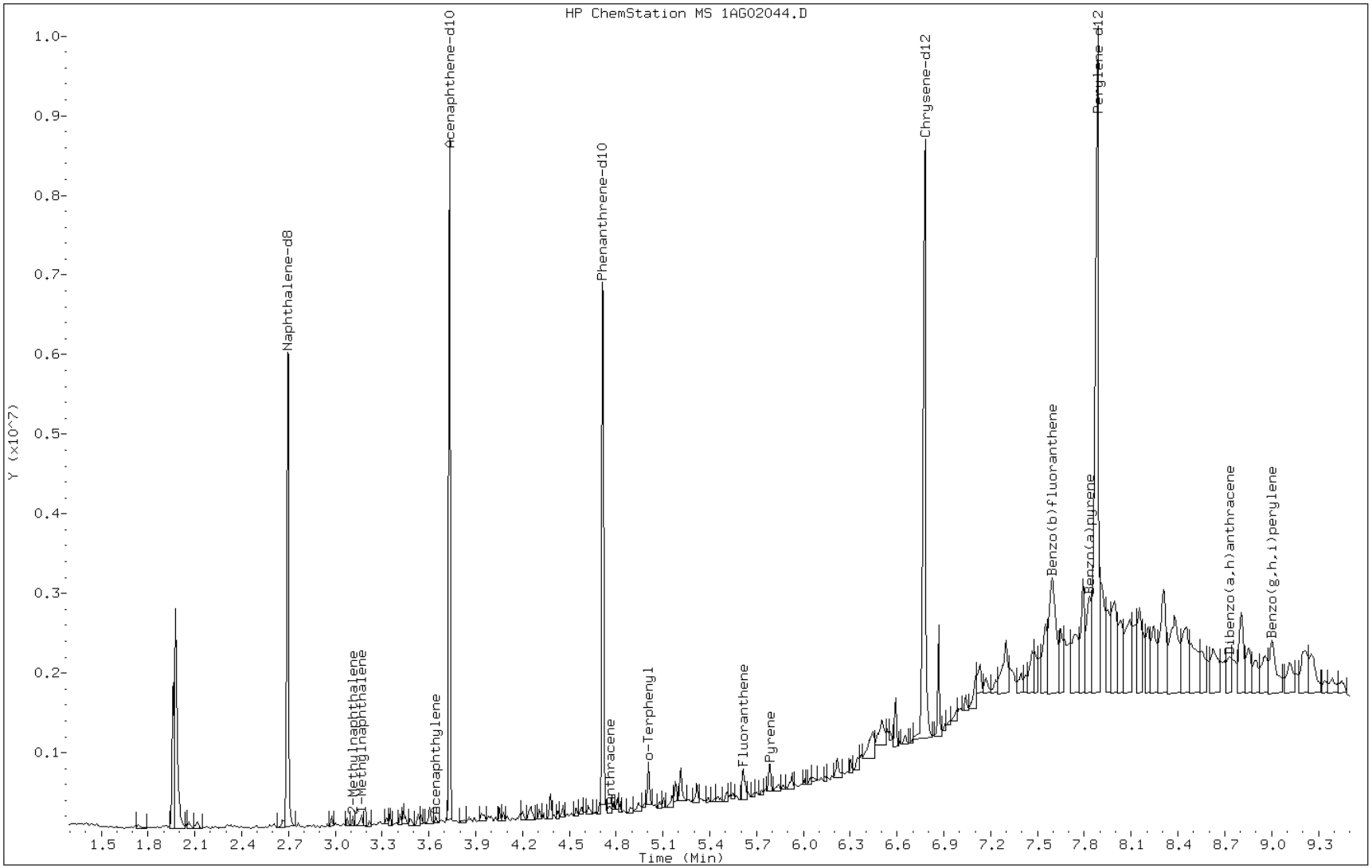
Date: 02-JUL-2013 22:02

Client ID: CV1363A-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-4-a

Operator: SCC



Data File: 1AG02044.D

Date: 02-JUL-2013 22:02

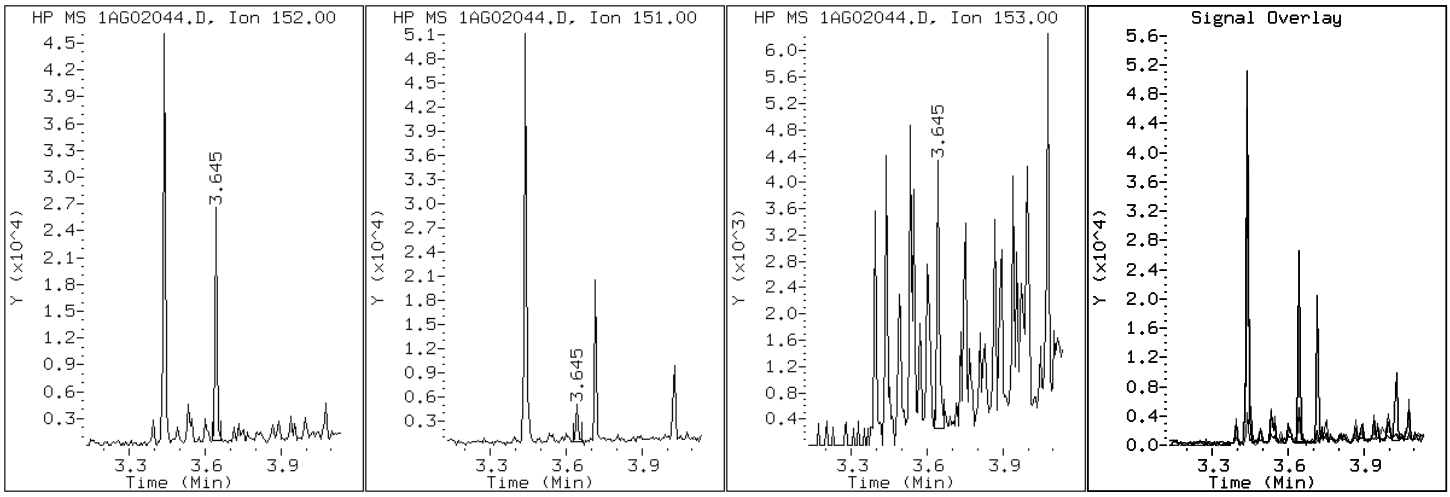
Client ID: CV1363A-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-4-a

Operator: SCC

6 Acenaphthylene



Data File: 1AG02044.D

Date: 02-JUL-2013 22:02

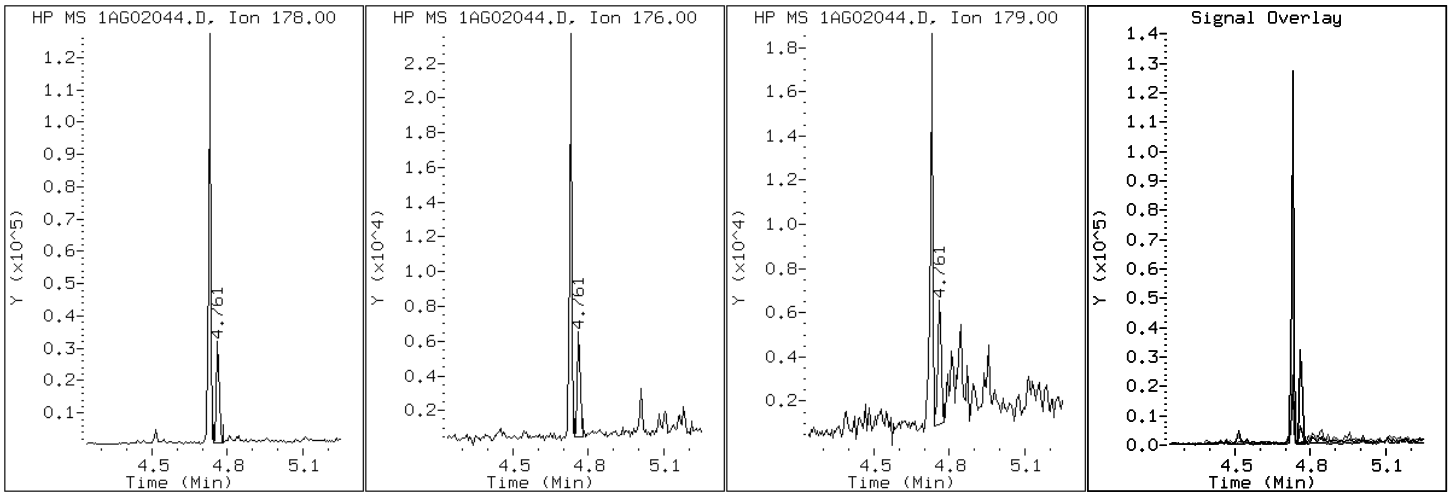
Client ID: CV1363A-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-4-a

Operator: SCC

13 Anthracene



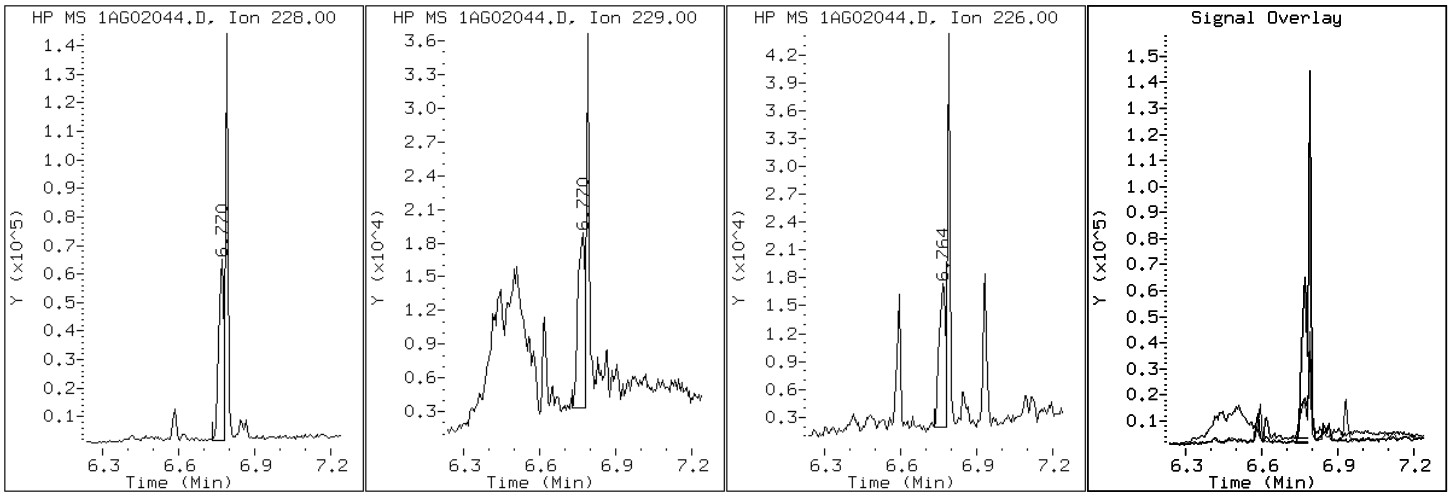
Data File: 1AG02044.D

Date: 02-JUL-2013 22:02

Client ID: CV1363A-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-4-a Operator: SCC

18 Benzo(a)anthracene



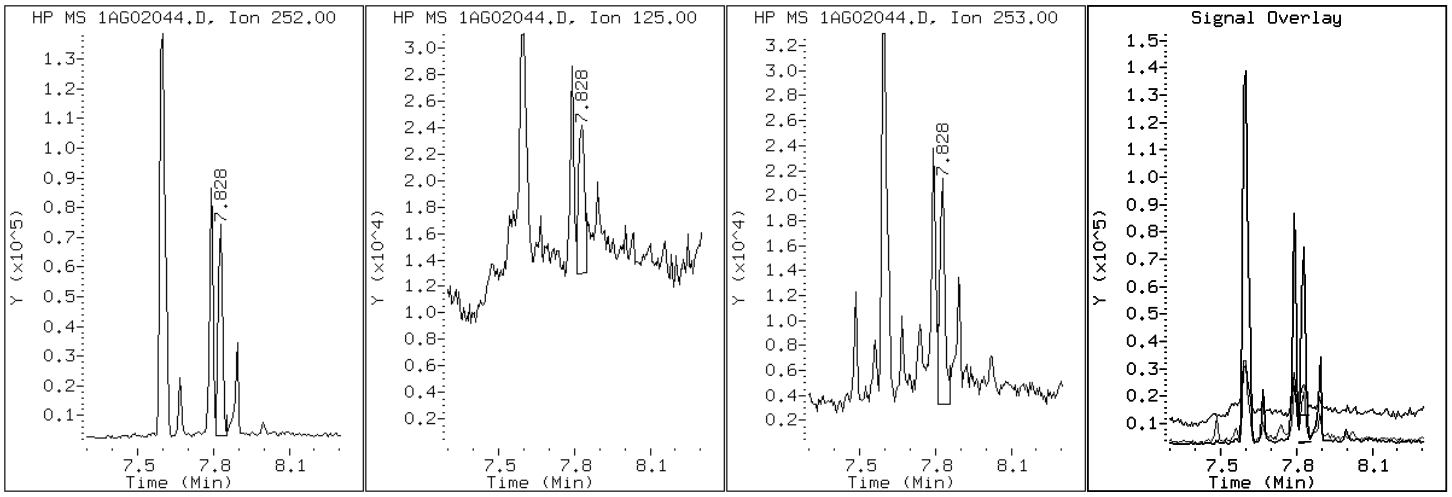
Data File: 1AG02044.D

Date: 02-JUL-2013 22:02

Client ID: CV1363A-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-4-a Operator: SCC

23 Benzo(a)pyrene



Data File: 1AG02044.D

Date: 02-JUL-2013 22:02

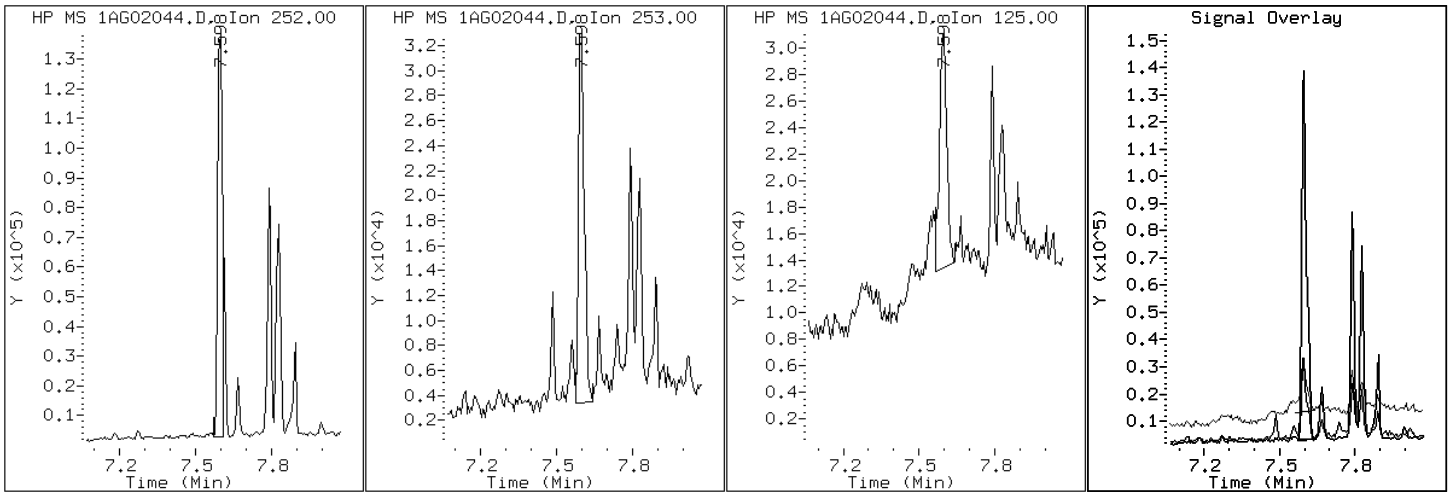
Client ID: CV1363A-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-4-a

Operator: SCC

21 Benzo(b)fluoranthene



Data File: 1AG02044.D

Date: 02-JUL-2013 22:02

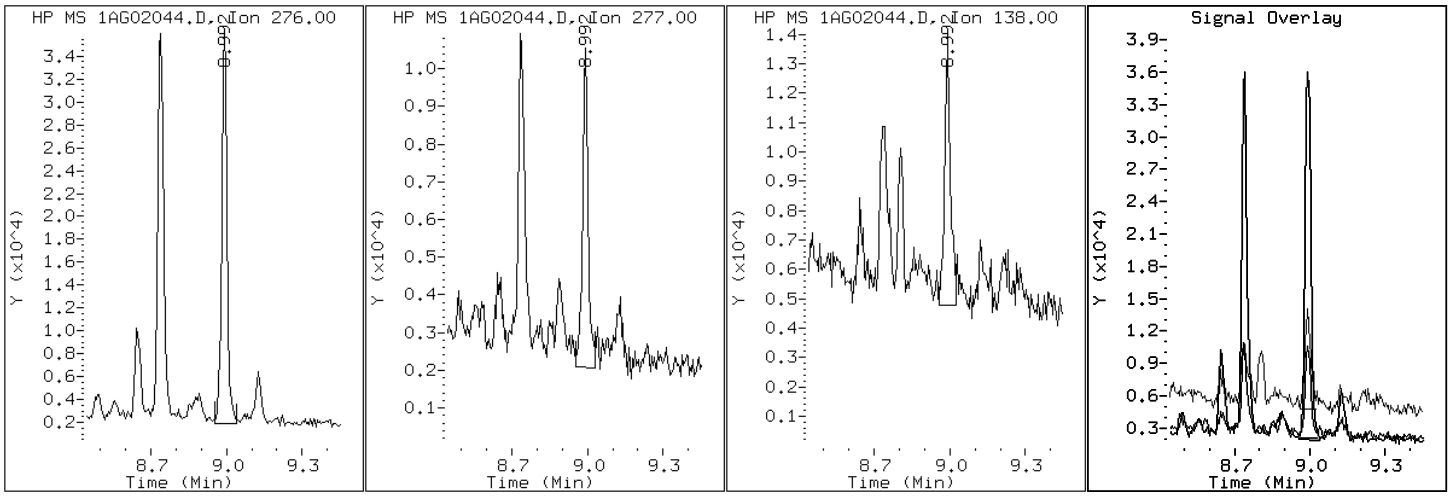
Client ID: CV1363A-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-4-a

Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1AG02044.D

Date: 02-JUL-2013 22:02

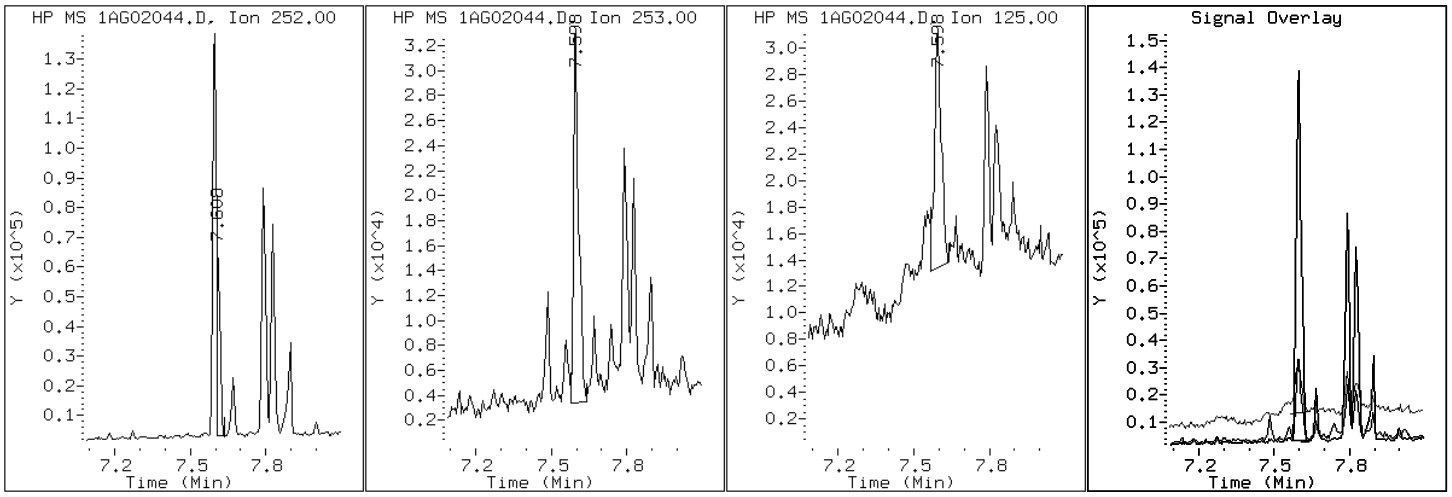
Client ID: CV1363A-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-4-a

Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1AG02044.D

Date: 02-JUL-2013 22:02

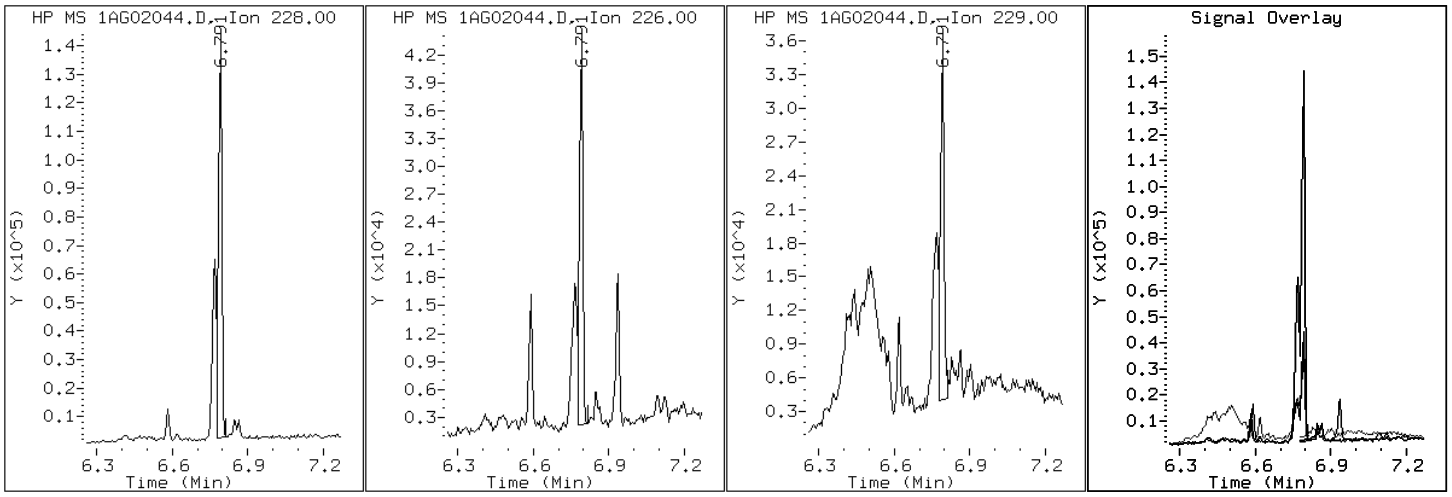
Client ID: CV1363A-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-4-a

Operator: SCC

20 Chrysene



Data File: 1AG02044.D

Date: 02-JUL-2013 22:02

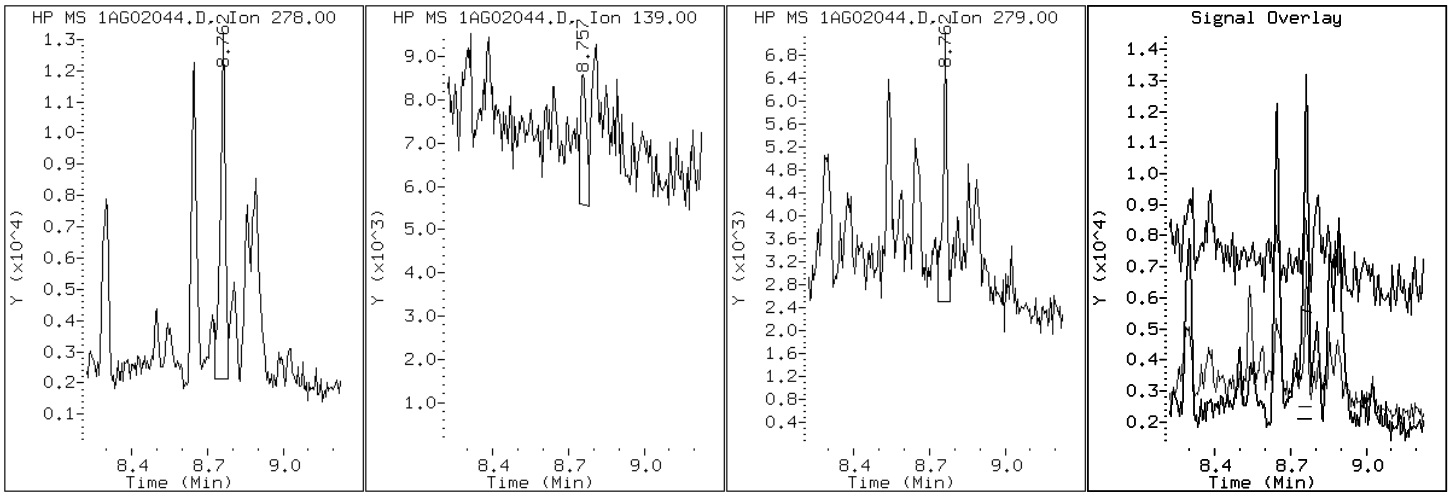
Client ID: CV1363A-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-4-a

Operator: SCC

26 Dibenzo(a,h)anthracene



Data File: 1AG02044.D

Date: 02-JUL-2013 22:02

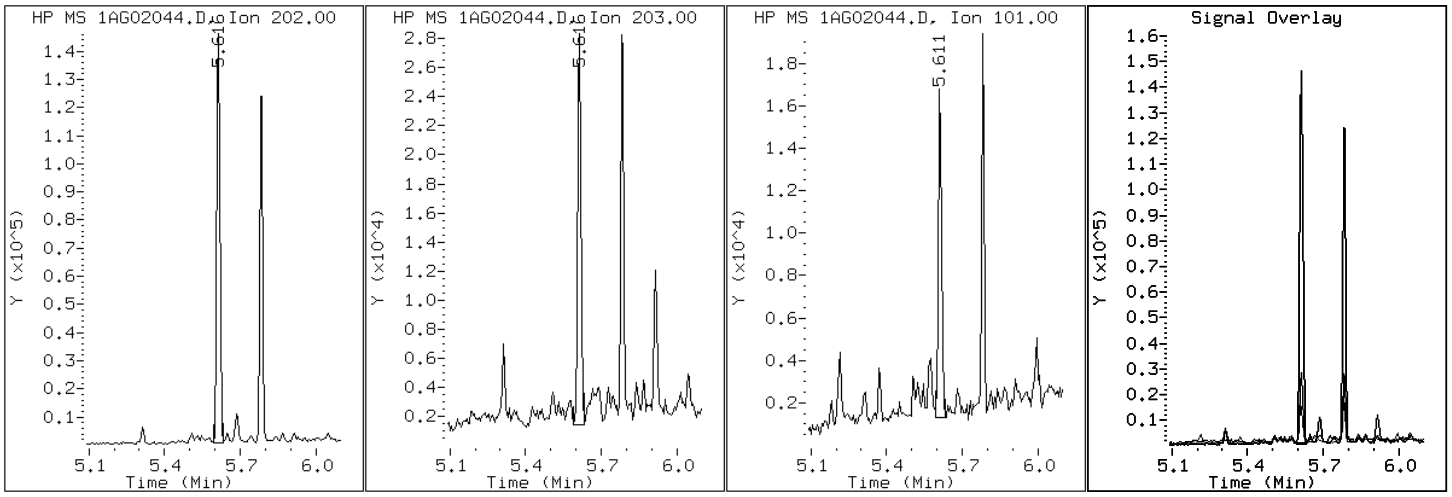
Client ID: CV1363A-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-4-a

Operator: SCC

16 Fluoranthene



Data File: 1AG02044.D

Date: 02-JUL-2013 22:02

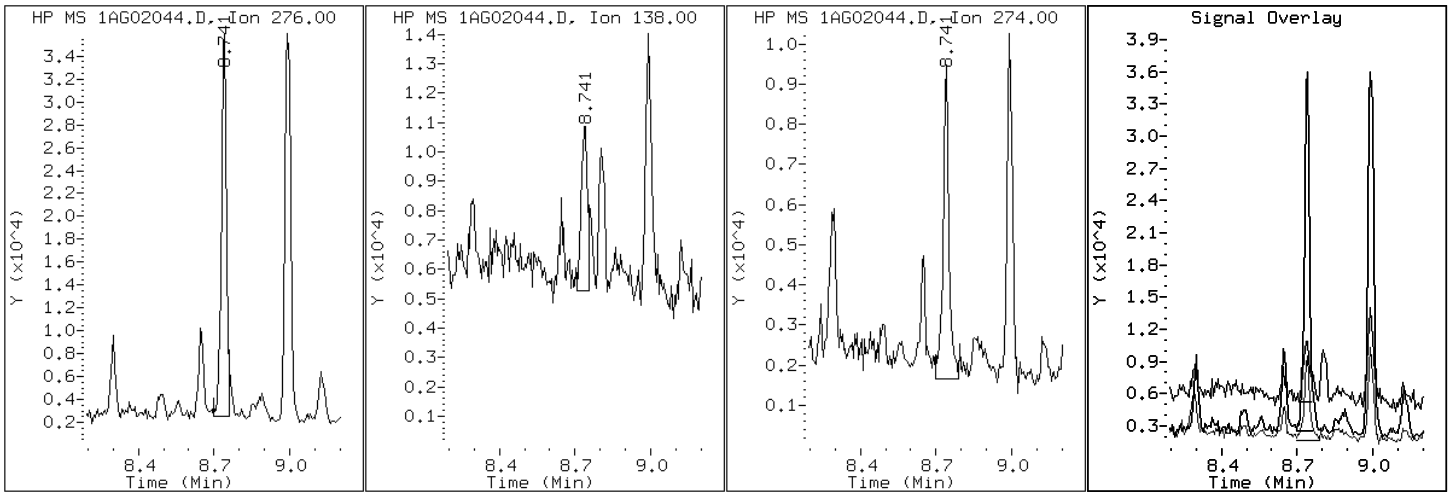
Client ID: CV1363A-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-4-a

Operator: SCC

25 Indeno(1,2,3-cd)pyrene



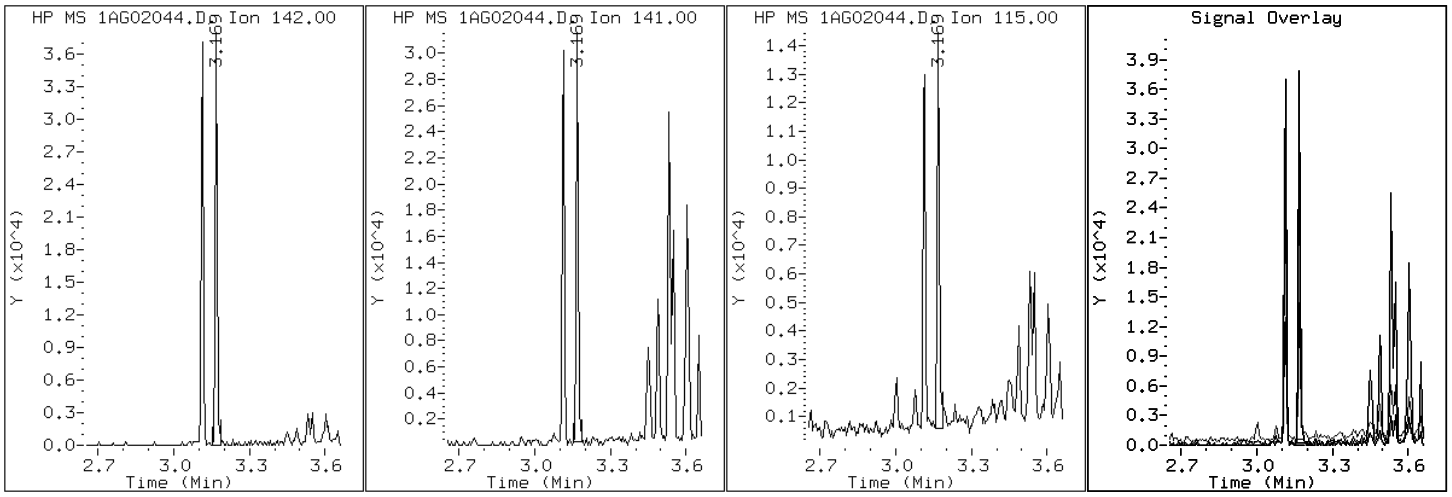
Data File: 1AG02044.D

Date: 02-JUL-2013 22:02

Client ID: CV1363A-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-4-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1AG02044.D

Date: 02-JUL-2013 22:02

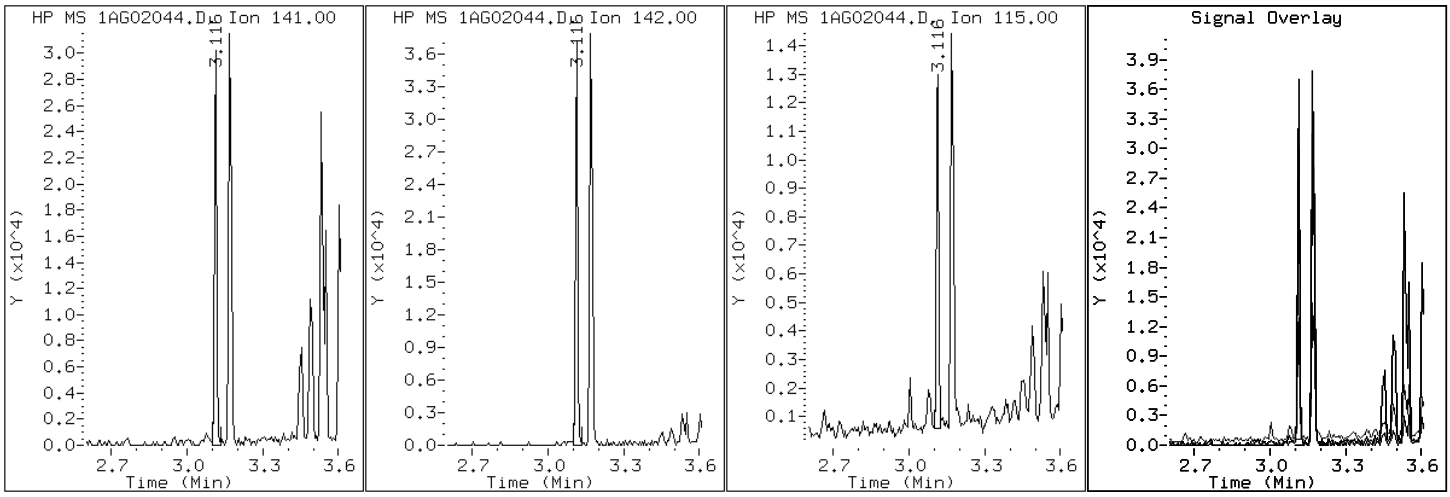
Client ID: CV1363A-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-4-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AG02044.D

Date: 02-JUL-2013 22:02

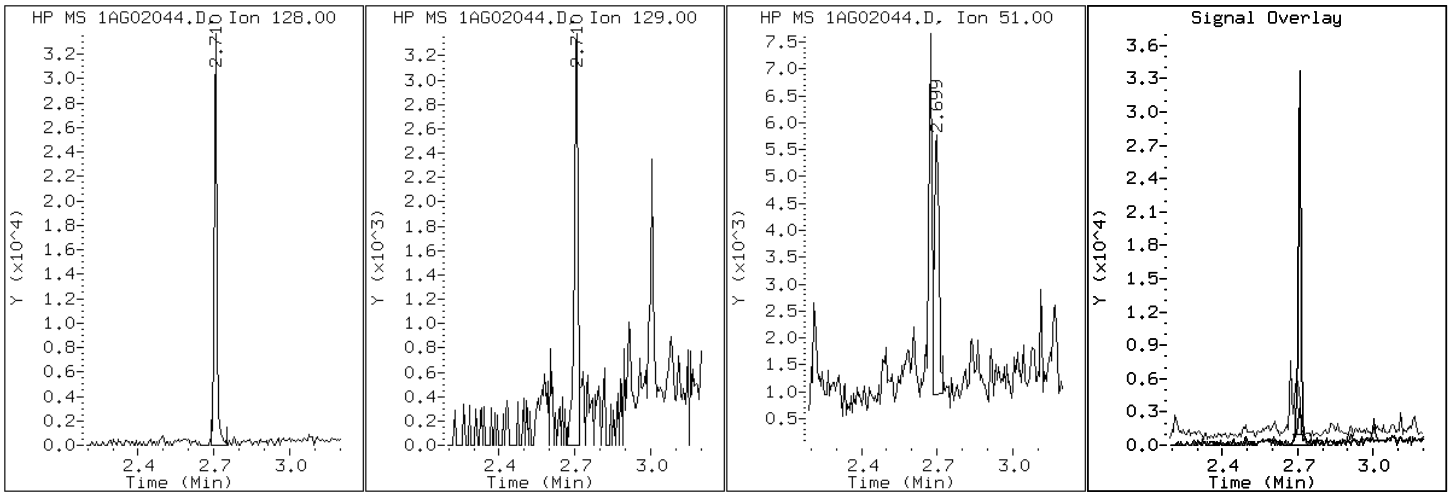
Client ID: CV1363A-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-4-a

Operator: SCC

2 Naphthalene



Data File: 1AG02044.D

Date: 02-JUL-2013 22:02

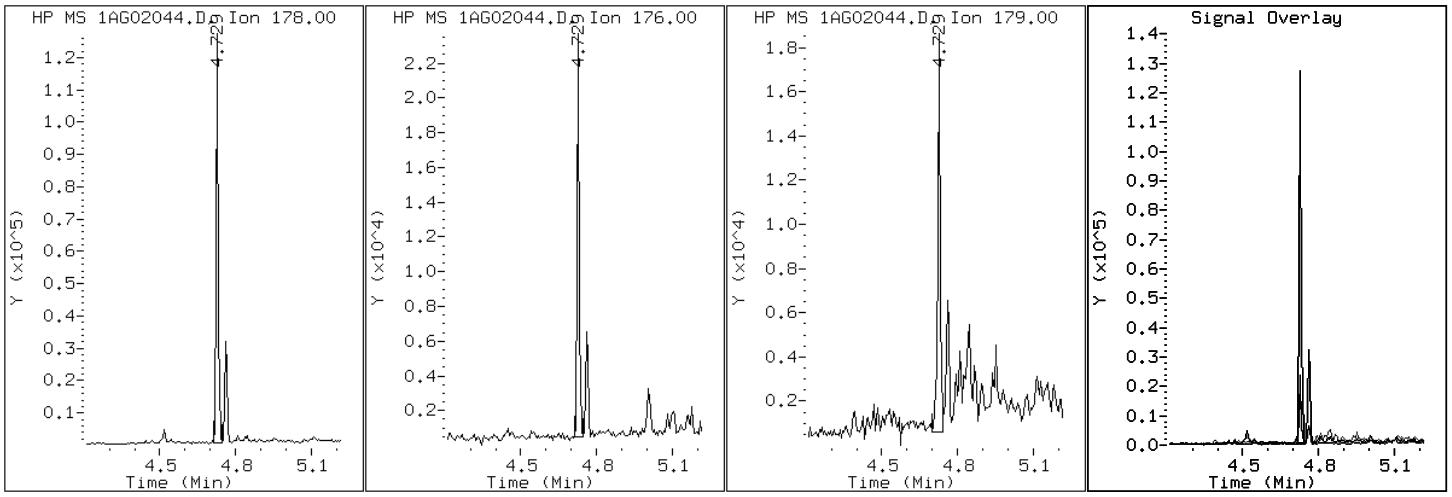
Client ID: CV1363A-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-4-a

Operator: SCC

12 Phenanthrene



Data File: 1AG02044.D

Date: 02-JUL-2013 22:02

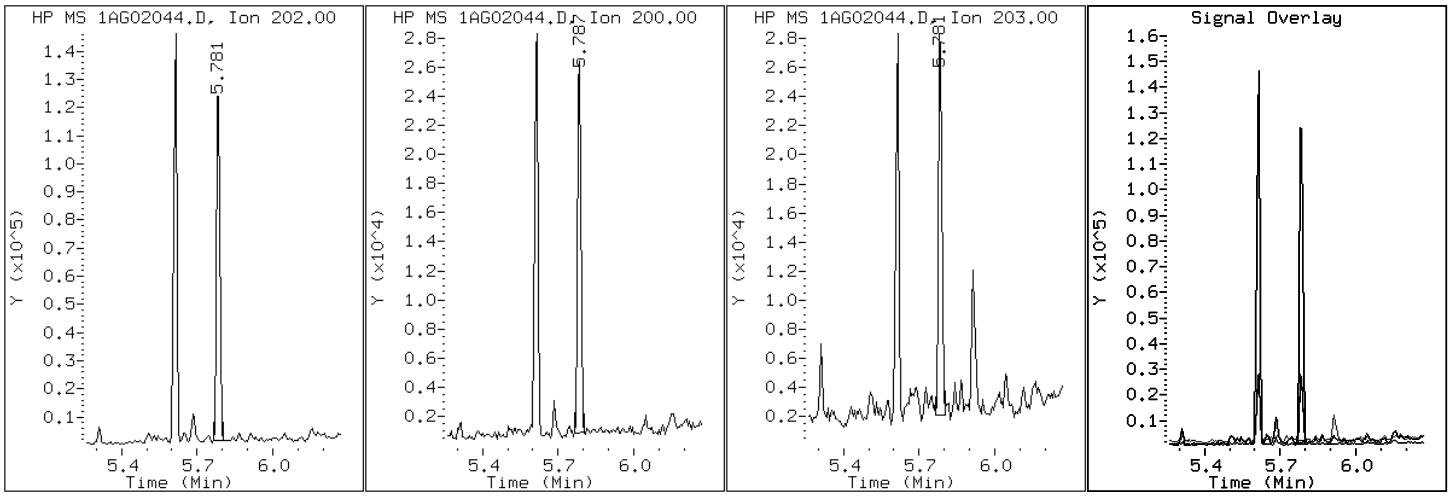
Client ID: CV1363A-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-4-a

Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG02044.D
Inj. Date and Time: 02-JUL-2013 22:02
Instrument ID: BSMA5973.i
Client ID: CV1363A-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/03/2013

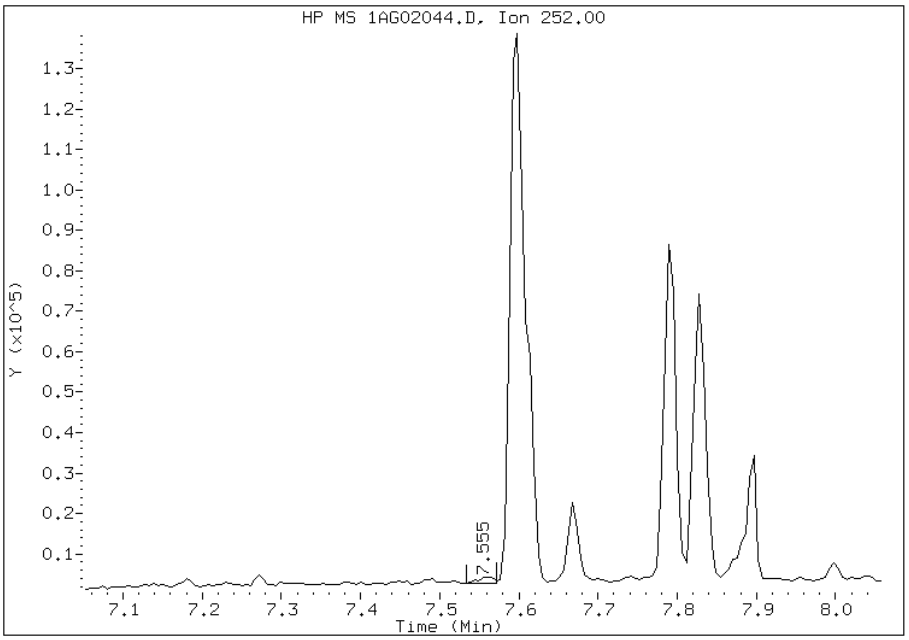
Processing Integration Results

RT: 7.56

Response: 2234

Amount: 0

Conc: 6



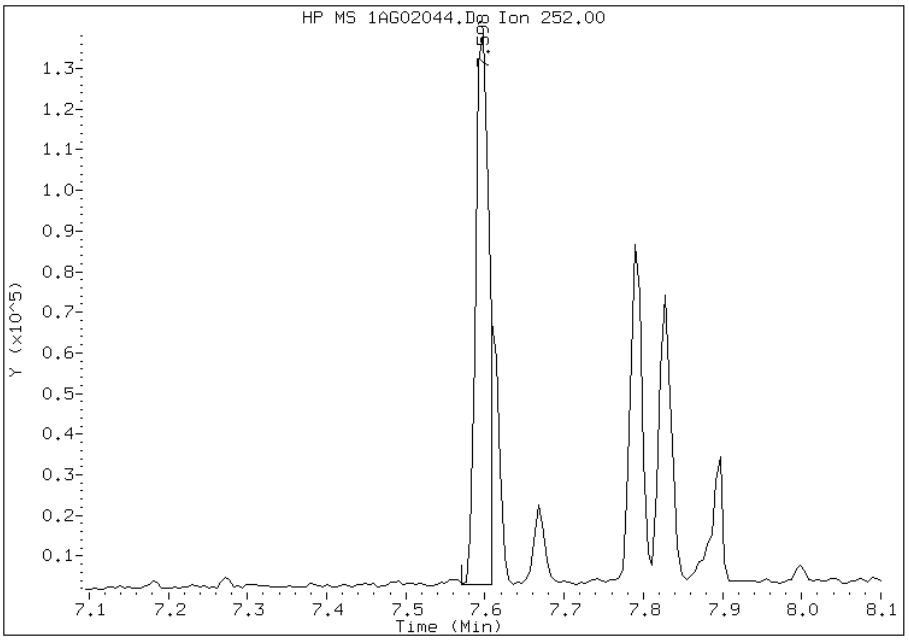
Manual Integration Results

RT: 7.60

Response: 159195

Amount: 1

Conc: 463



Manually Integrated By: cantins
Modification Date: 03-Jul-2013 15:57
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG02044.D
Inj. Date and Time: 02-JUL-2013 22:02
Instrument ID: BSMA5973.i
Client ID: CV1363A-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/03/2013

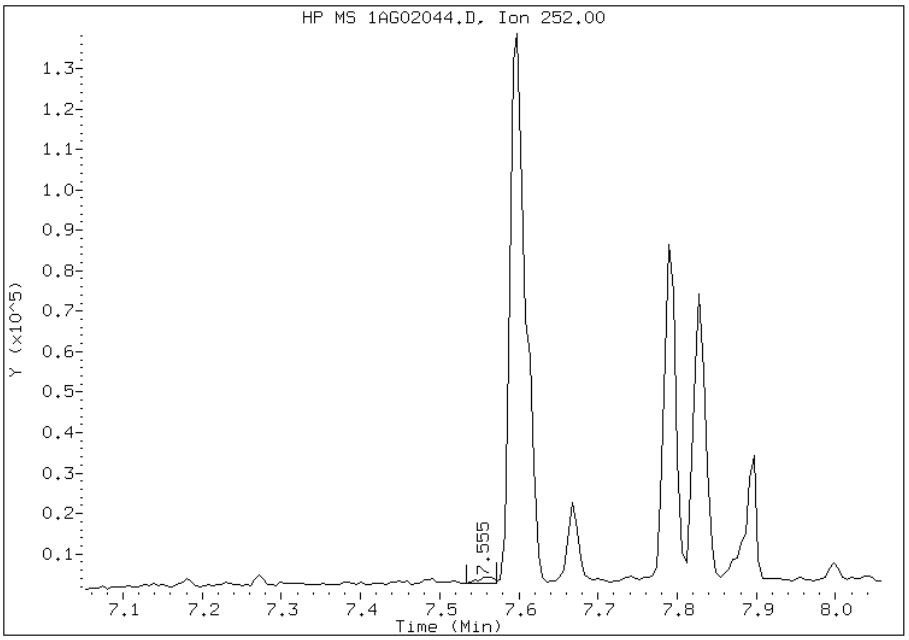
Processing Integration Results

RT: 7.56

Response: 2234

Amount: 0

Conc: 64



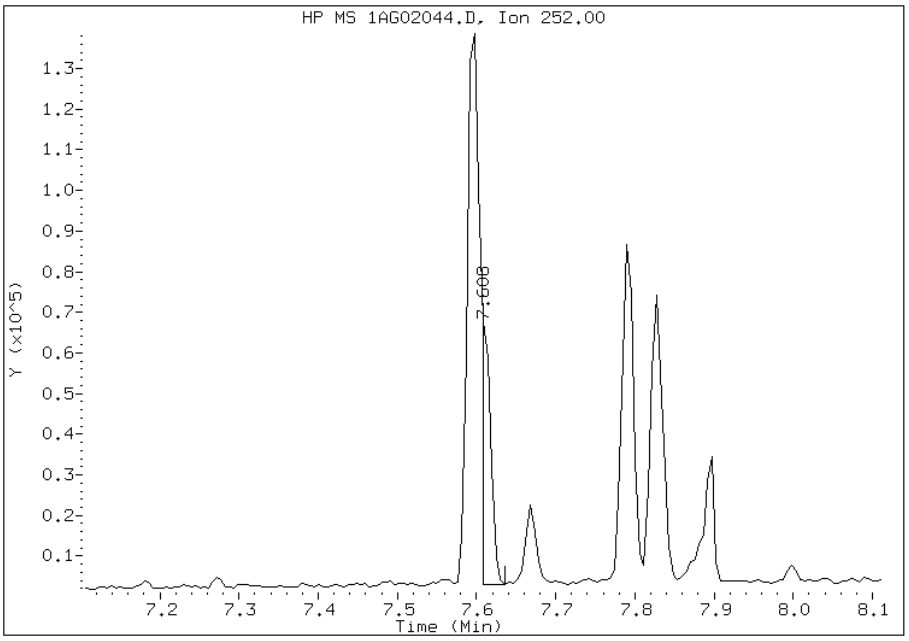
Manual Integration Results

RT: 7.61

Response: 50283

Amount: 1

Conc: 171



Manually Integrated By: cantins
Modification Date: 03-Jul-2013 15:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG02044.D
Inj. Date and Time: 02-JUL-2013 22:02
Instrument ID: BSMA5973.i
Client ID: CV1363A-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/03/2013

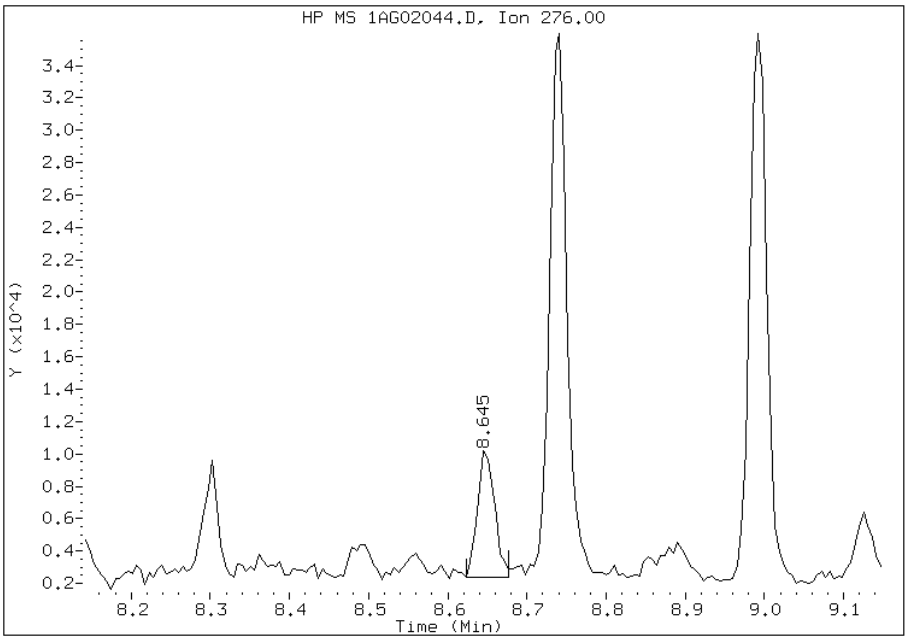
Processing Integration Results

RT: 8.64

Response: 11475

Amount: 0

Conc: 40



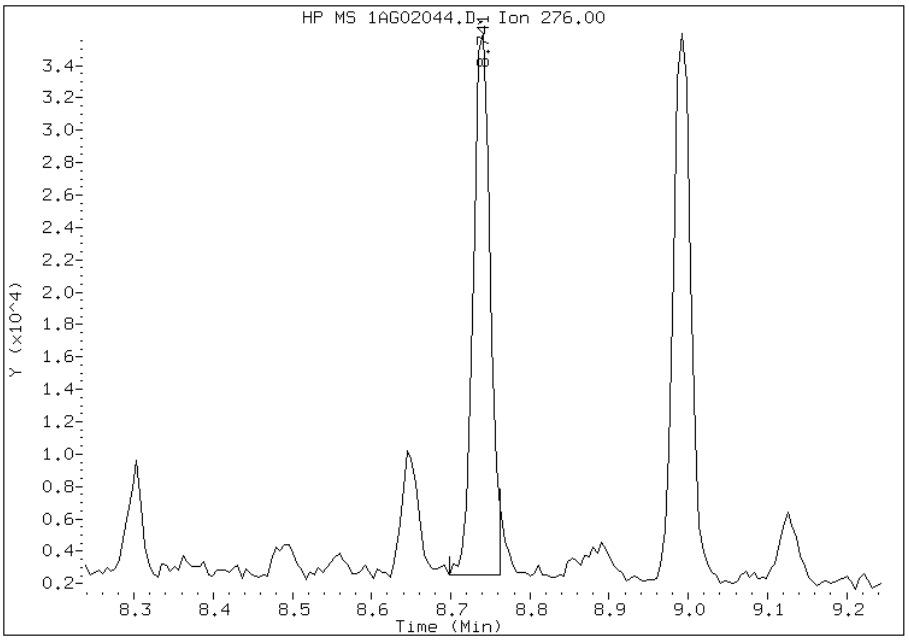
Manual Integration Results

RT: 8.74

Response: 49842

Amount: 1

Conc: 174



Manually Integrated By: cantins
Modification Date: 03-Jul-2013 15:58
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363A-CSD | Lab Sample ID: 680-91719-5

Matrix: Solid | Lab File ID: 1AG02045.D

Analysis Method: 8270C LL | Date Collected: 06/24/2013 13:00

Extract. Method: 3546 | Date Extracted: 07/01/2013 13:43

Sample wt/vol: 15.16(g) | Date Analyzed: 07/02/2013 22:17

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139030 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	42	J	47	5.9
120-12-7	Anthracene	60		9.9	4.9
56-55-3	Benzo[a]anthracene	150		9.4	4.6
50-32-8	Benzo[a]pyrene	160		12	6.1
205-99-2	Benzo[b]fluoranthene	280		14	7.2
191-24-2	Benzo[g,h,i]perylene	110		24	5.2
207-08-9	Benzo[k]fluoranthene	90		9.4	4.2
218-01-9	Chrysene	230		11	5.3
53-70-3	Dibenz(a,h)anthracene	43		24	4.8
206-44-0	Fluoranthene	250		24	4.7
86-73-7	Fluorene	24	U	24	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	110		24	8.3
90-12-0	1-Methylnaphthalene	77		47	5.2
91-57-6	2-Methylnaphthalene	90		47	8.3
91-20-3	Naphthalene	84		47	5.2
85-01-8	Phenanthrene	180		9.4	4.6
129-00-0	Pyrene	180		24	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	36		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\1AG02045.D
Lab Smp Id: 680-91719-A-5-A Client Smp ID: CV1363A-CSD
Inj Date : 02-JUL-2013 22:17
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-a-5-a
Misc Info : 680-91719-A-5-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\a-bFASTPAHi-m.m
Meth Date : 02-Jul-2013 11:39 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 45
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.160	Weight Extracted
M	15.835	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.694	2.683	(1.000)	2815315	40.0000	
* 7 Acenaphthene-d10	164	3.735	3.719	(1.000)	1606329	40.0000	
* 11 Phenanthrene-d10	188	4.713	4.697	(1.000)	2460399	40.0000	
$ 15 o-Terphenyl	230	5.007	4.996	(1.062)	184837	3.55713	278.7851
* 19 Chrysene-d12	240	6.780	6.748	(1.000)	3289102	40.0000	
* 24 Perylene-d12	264	7.892	7.849	(1.000)	3601465	40.0000	(H)
2 Naphthalene	128	2.704	2.699	(1.004)	79205	1.07751	84.4486
3 2-Methylnaphthalene	141	3.110	3.105	(1.155)	57905	1.15105	90.2117
4 1-Methylnaphthalene	142	3.169	3.158	(1.176)	59173	0.98254	77.0055
6 Acenaphthylene	152	3.645	3.634	(0.976)	42099	0.54117	42.4132
12 Phenanthrene	178	4.729	4.713	(1.003)	204748	2.28976	179.4567
13 Anthracene	178	4.761	4.745	(1.010)	61260	0.76798	60.1894
16 Fluoranthene	202	5.616	5.594	(1.192)	339264	3.19565	250.4549
17 Pyrene	202	5.787	5.765	(0.853)	312367	2.35562	184.6184

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
18 Benzo(a)anthracene	228	6.770	6.738	(0.998)	217282	1.86739	146.3541
20 Chrysene	228	6.791	6.764	(1.002)	313175	2.90694	227.8276
21 Benzo(b)fluoranthene	252	7.603	7.571	(0.963)	414010	3.63207	284.6586(MH)
22 Benzo(k)fluoranthene	252	7.614	7.592	(0.965)	142590	1.15358	90.4101(QM)
23 Benzo(a)pyrene	252	7.833	7.801	(0.993)	213591	2.00498	157.1375(H)
25 Indeno(1,2,3-cd)pyrene	276	8.752	8.698	(1.109)	129820	1.36513	106.9901(MH)
26 Dibenzo(a,h)anthracene	278	8.778	8.725	(1.112)	51880	0.55055	43.1486(H)
27 Benzo(g,h,i)perylene	276	9.013	8.949	(1.142)	145585	1.43767	112.6756(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG02045.D

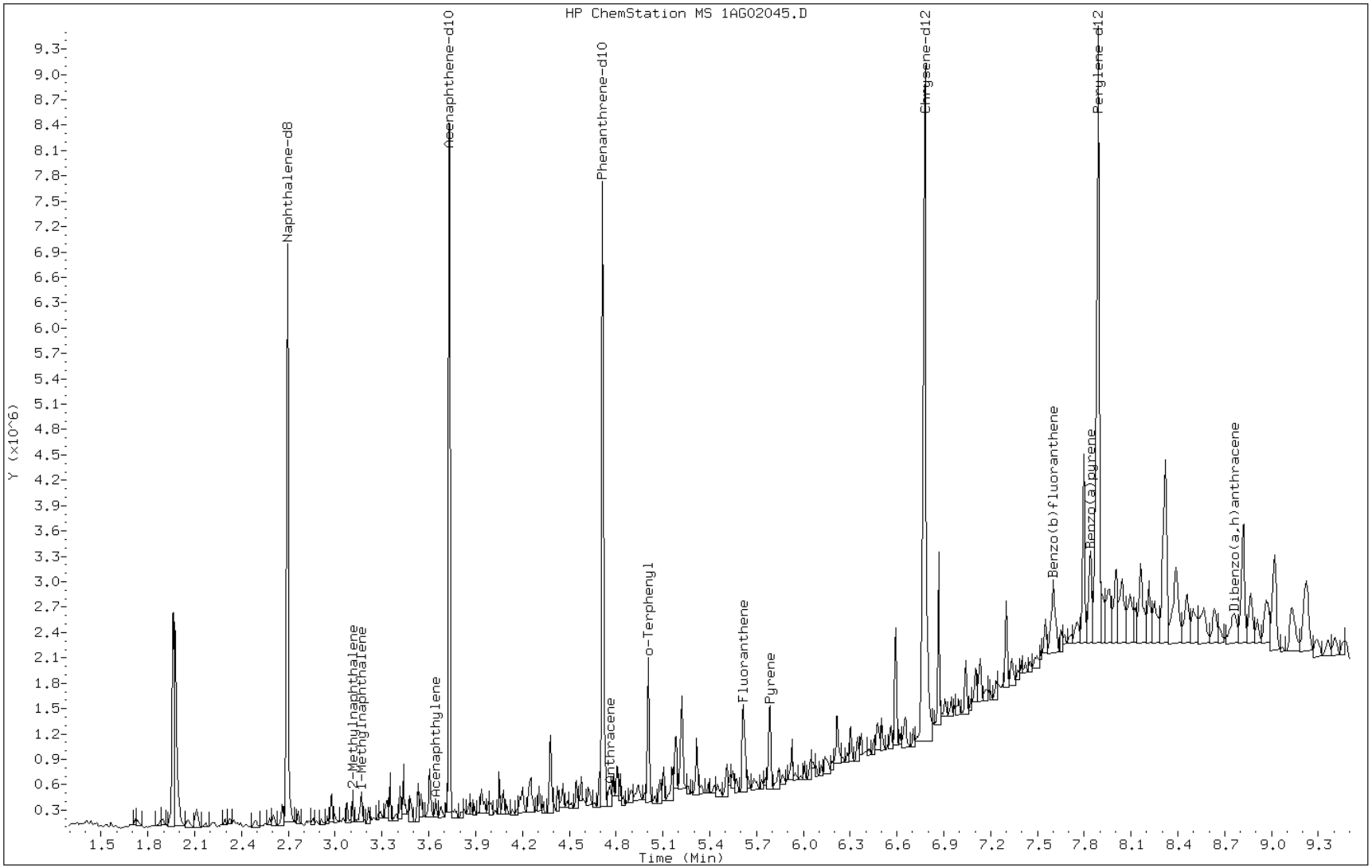
Date: 02-JUL-2013 22:17

Client ID: CV1363A-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-a-5-a

Operator: SCC



Data File: 1AG02045.D

Date: 02-JUL-2013 22:17

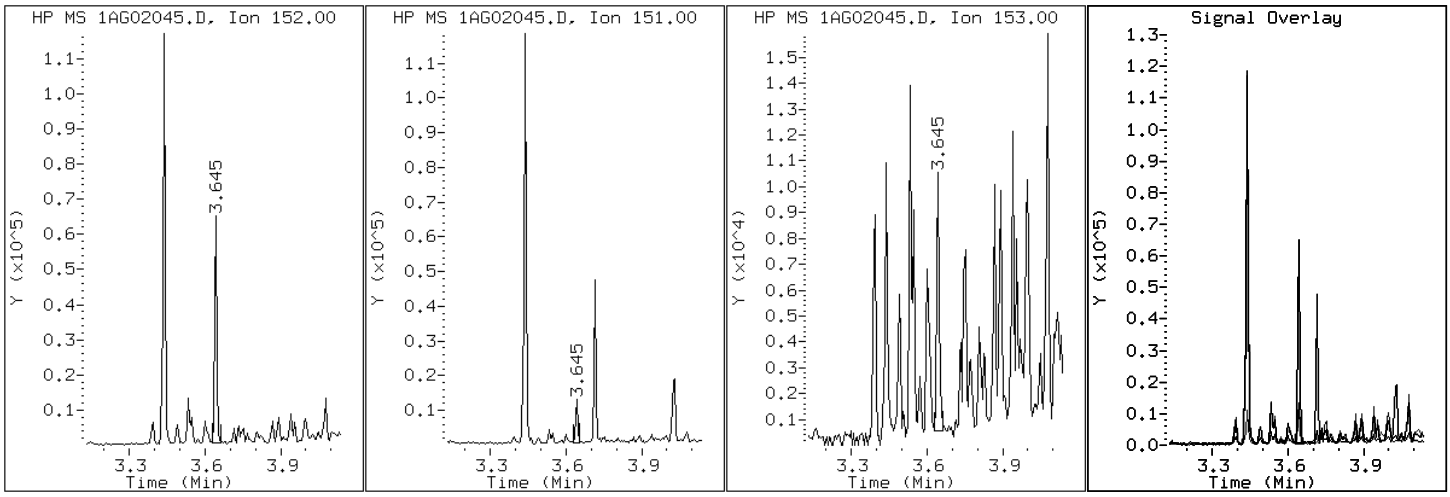
Client ID: CV1363A-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-a-5-a

Operator: SCC

6 Acenaphthylene



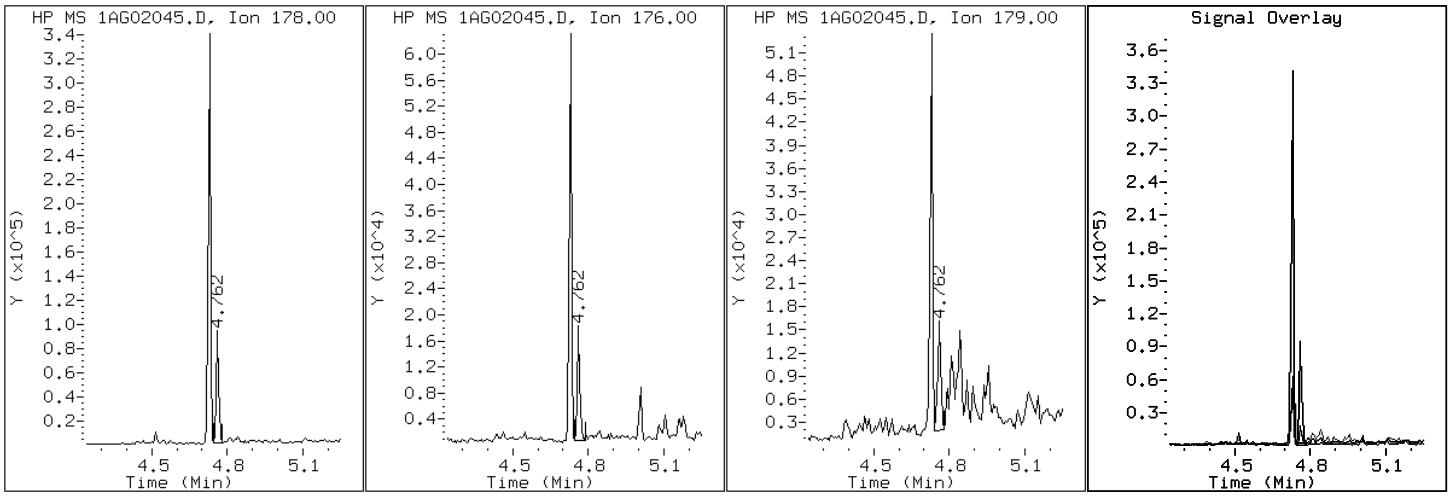
Data File: 1AG02045.D

Date: 02-JUL-2013 22:17

Client ID: CV1363A-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-5-a Operator: SCC

13 Anthracene



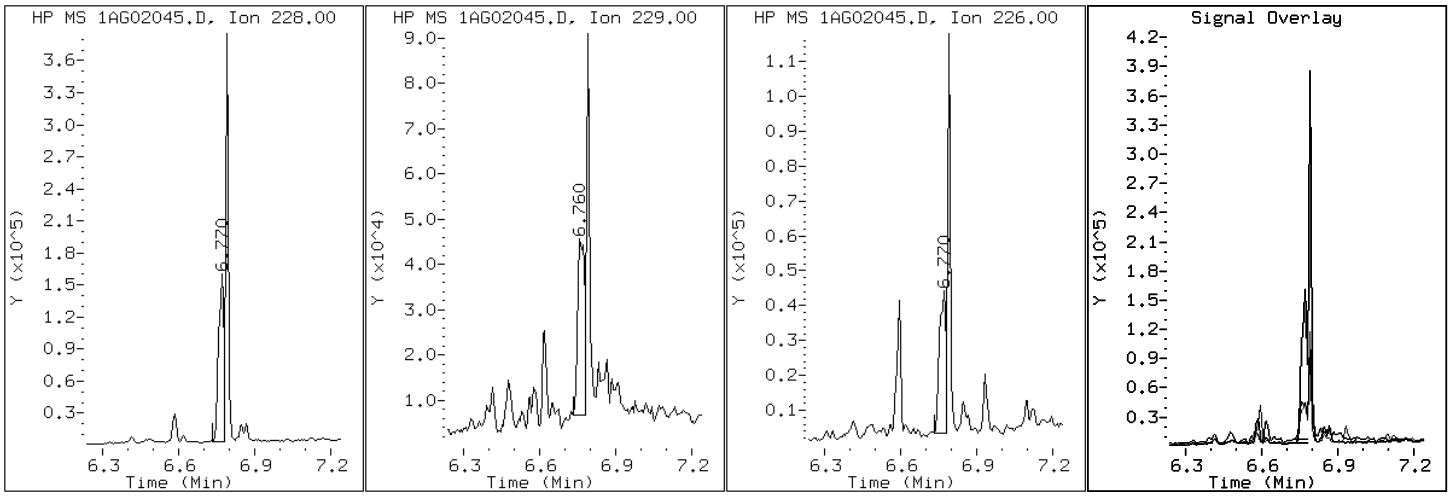
Data File: 1AG02045.D

Date: 02-JUL-2013 22:17

Client ID: CV1363A-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-5-a Operator: SCC

18 Benzo(a)anthracene



Data File: 1AG02045.D

Date: 02-JUL-2013 22:17

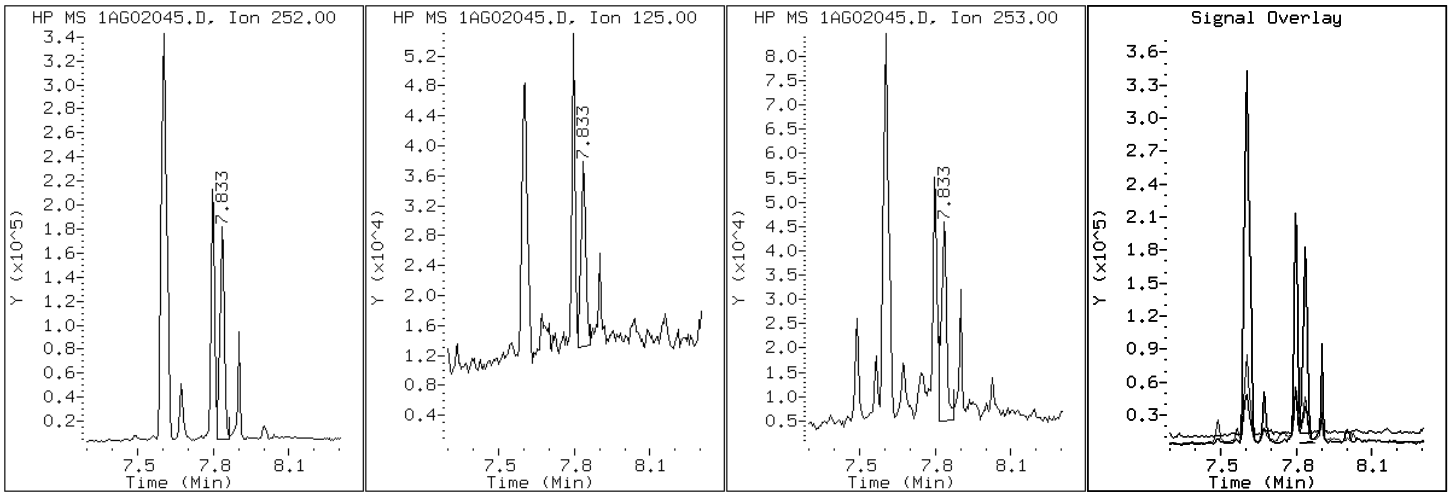
Client ID: CV1363A-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-a-5-a

Operator: SCC

23 Benzo(a)pyrene



Data File: 1AG02045.D

Date: 02-JUL-2013 22:17

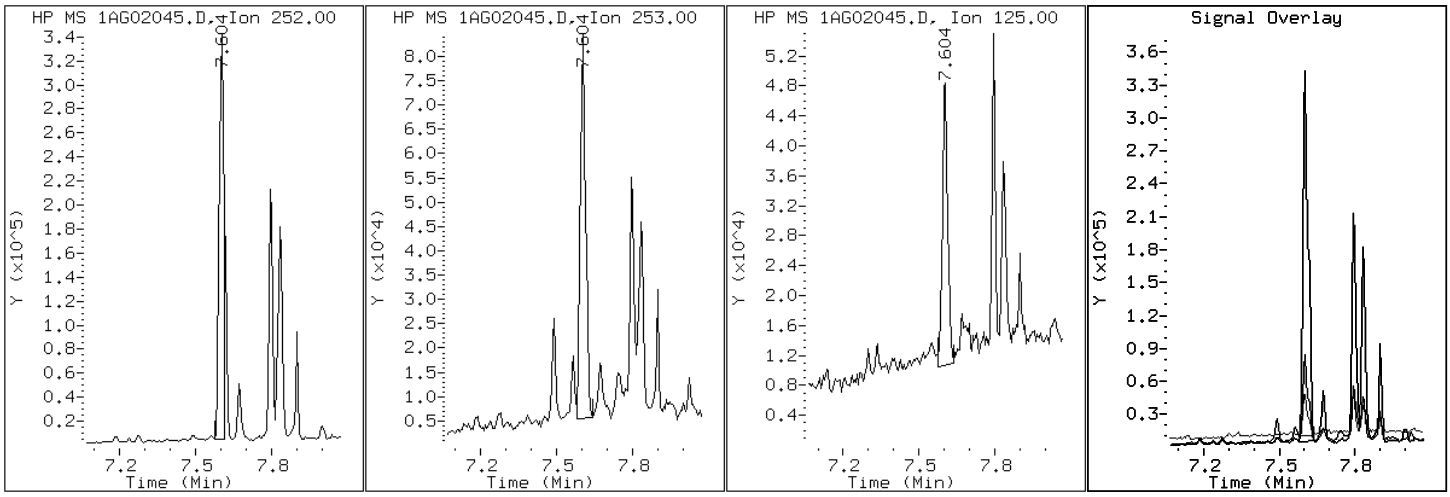
Client ID: CV1363A-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-a-5-a

Operator: SCC

21 Benzo(b)fluoranthene



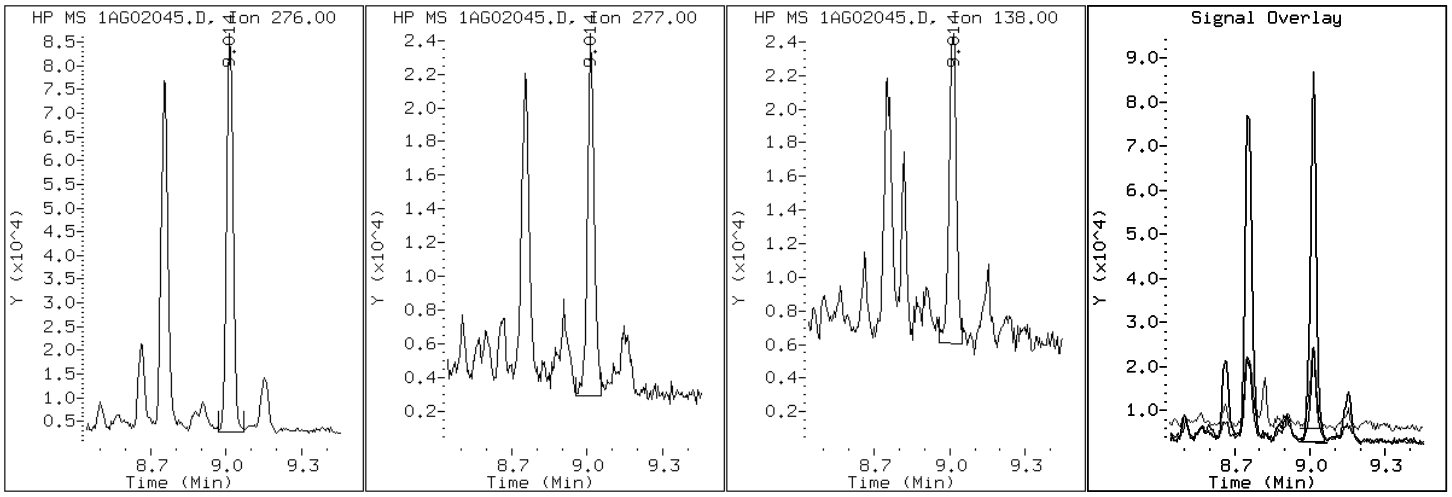
Data File: 1AG02045.D

Date: 02-JUL-2013 22:17

Client ID: CV1363A-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-5-a Operator: SCC

27 Benzo(g,h,i)perylene



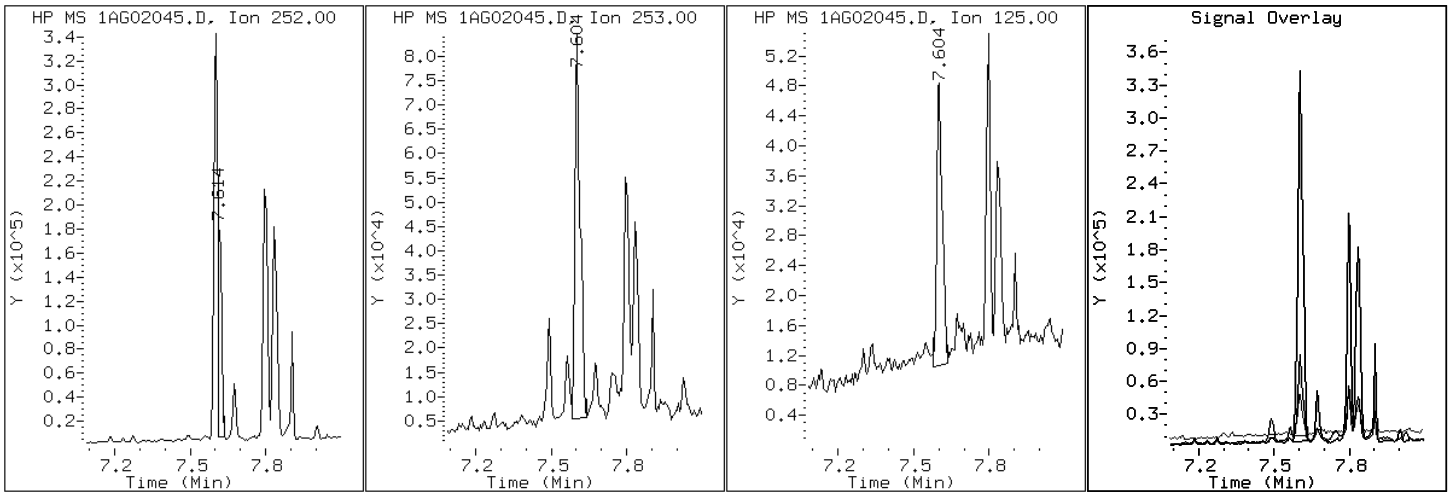
Data File: 1AG02045.D

Date: 02-JUL-2013 22:17

Client ID: CV1363A-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-5-a Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1AG02045.D

Date: 02-JUL-2013 22:17

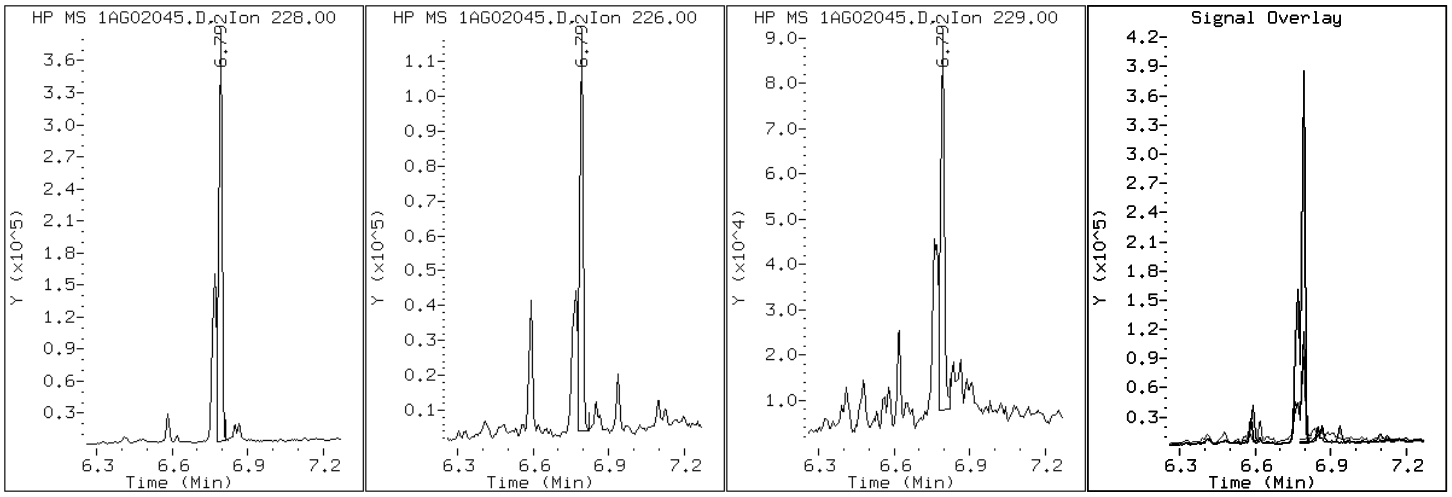
Client ID: CV1363A-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-a-5-a

Operator: SCC

20 Chrysene



Data File: 1AG02045.D

Date: 02-JUL-2013 22:17

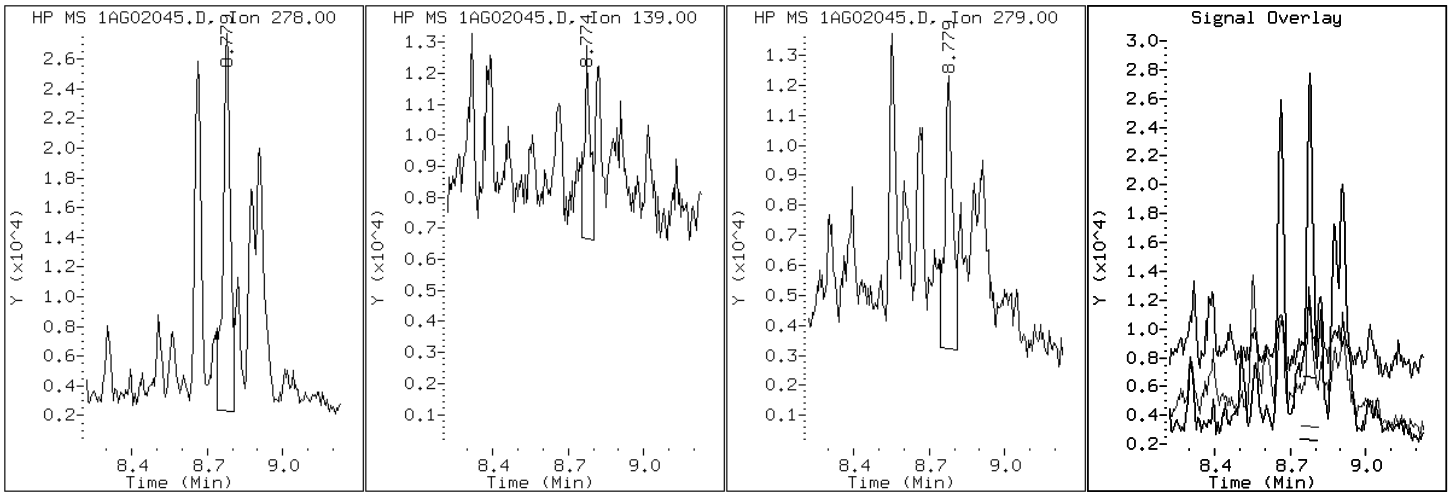
Client ID: CV1363A-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-a-5-a

Operator: SCC

26 Dibenzo(a,h)anthracene



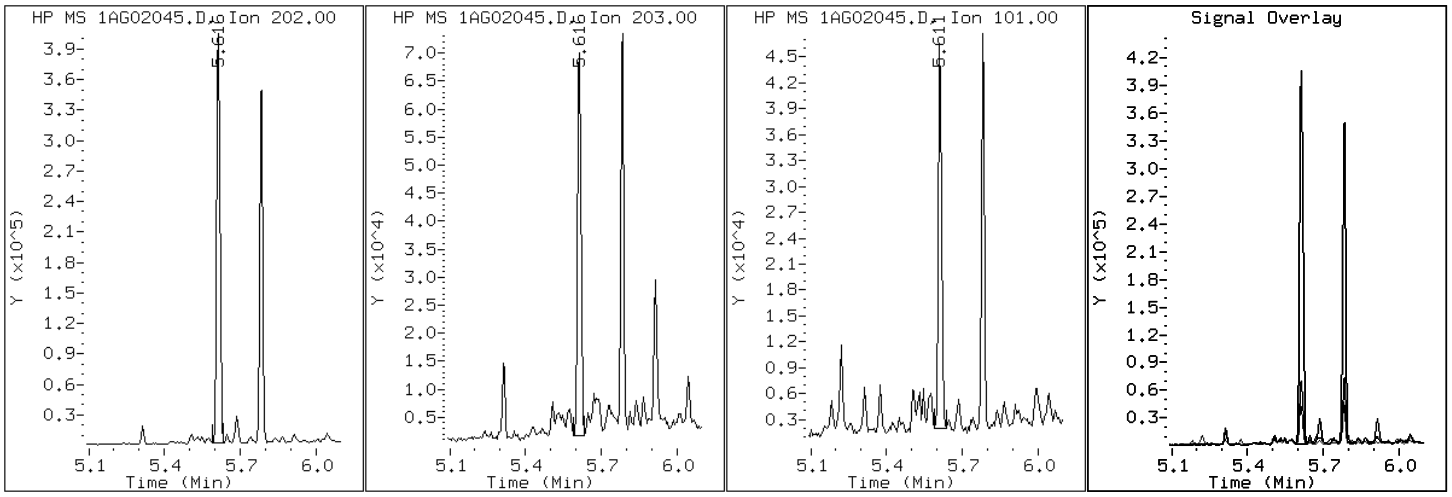
Data File: 1AG02045.D

Date: 02-JUL-2013 22:17

Client ID: CV1363A-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-5-a Operator: SCC

16 Fluoranthene



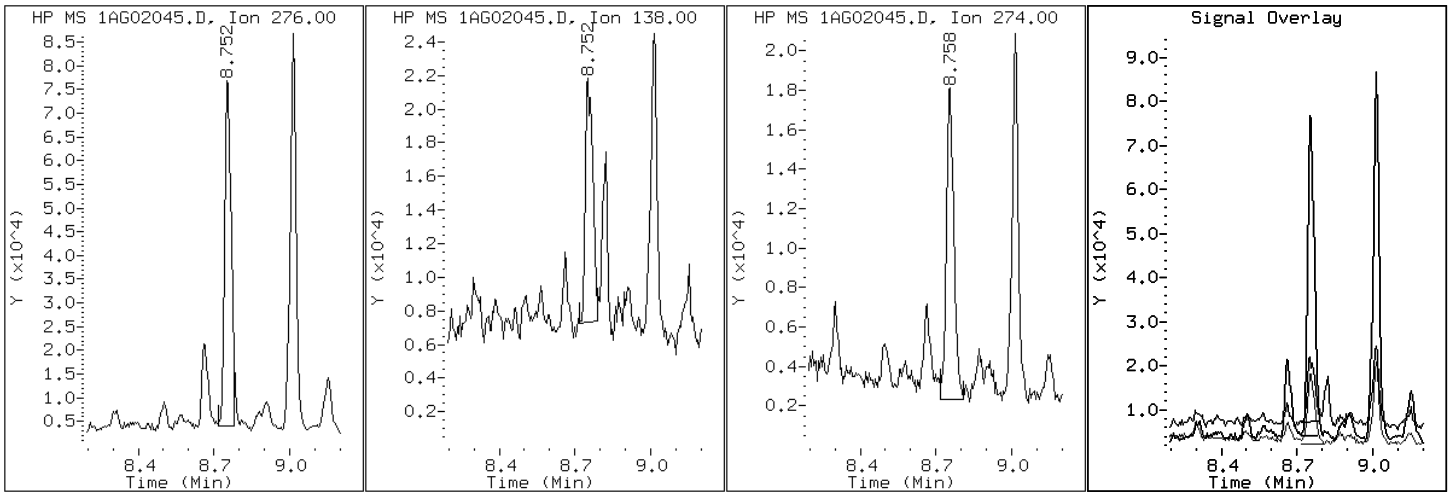
Data File: 1AG02045.D

Date: 02-JUL-2013 22:17

Client ID: CV1363A-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-5-a Operator: SCC

25 Indeno(1,2,3-cd)pyrene



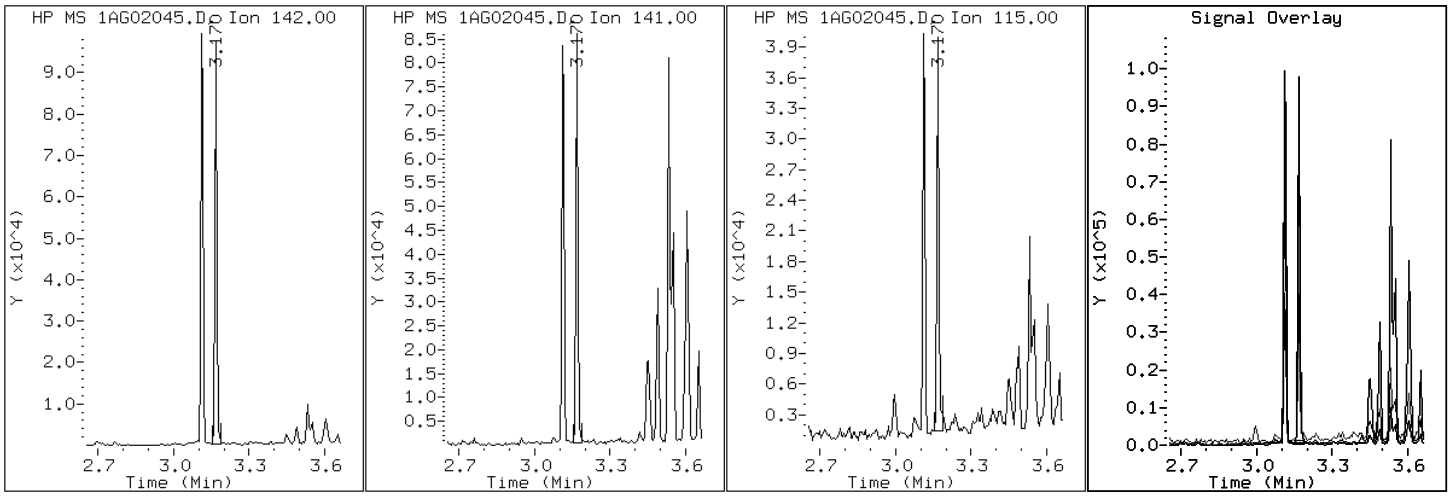
Data File: 1AG02045.D

Date: 02-JUL-2013 22:17

Client ID: CV1363A-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-5-a Operator: SCC

4 1-Methylnaphthalene



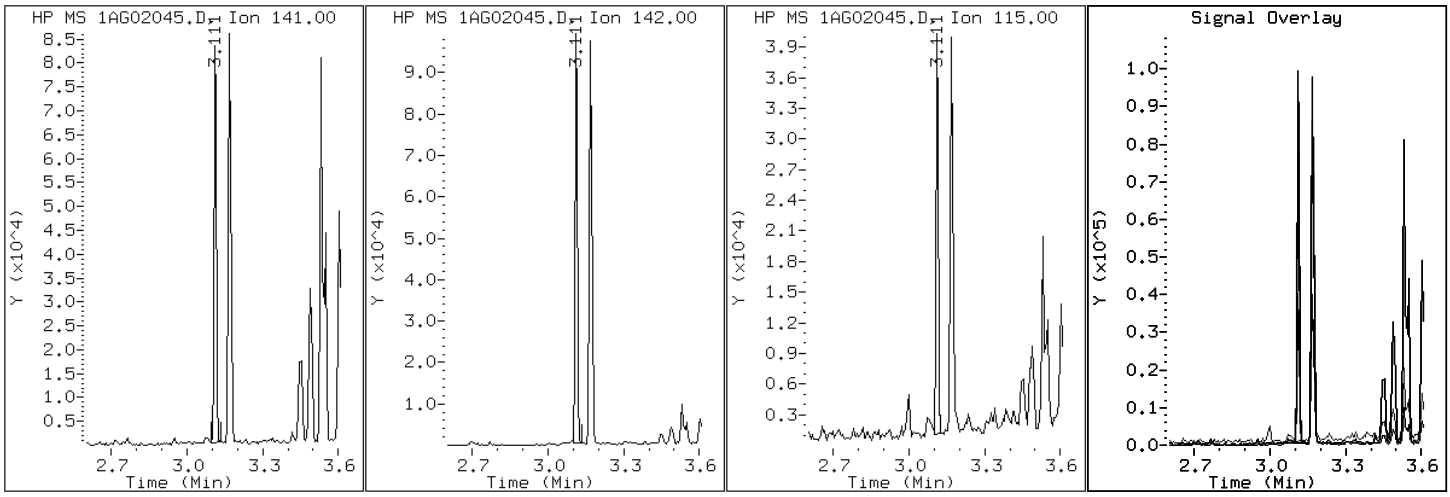
Data File: 1AG02045.D

Date: 02-JUL-2013 22:17

Client ID: CV1363A-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-5-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AG02045.D

Date: 02-JUL-2013 22:17

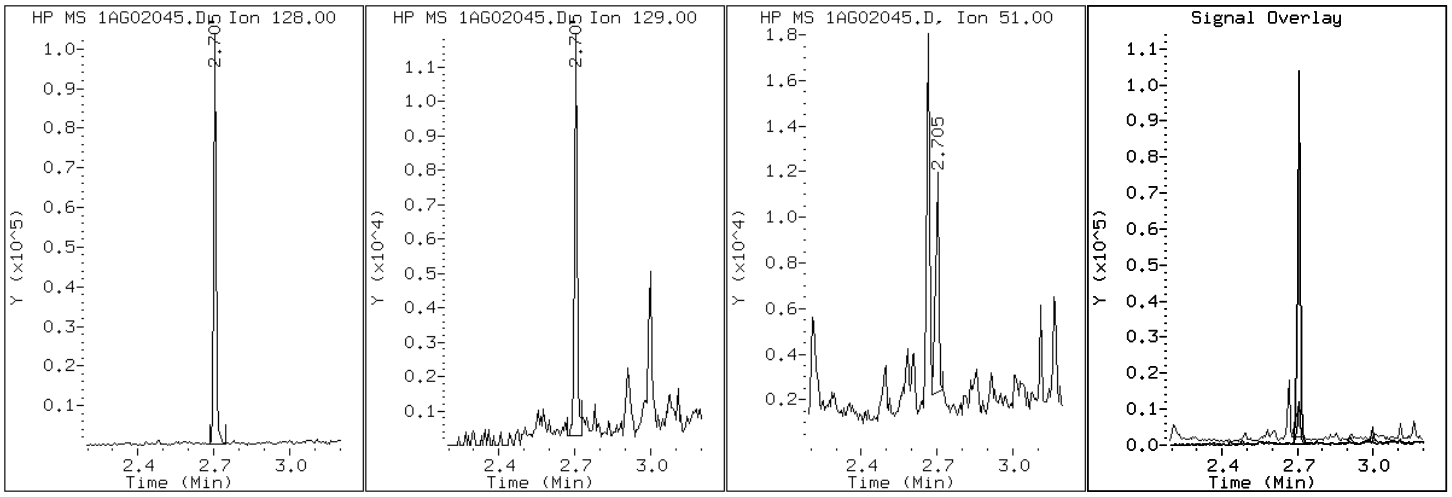
Client ID: CV1363A-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-a-5-a

Operator: SCC

2 Naphthalene



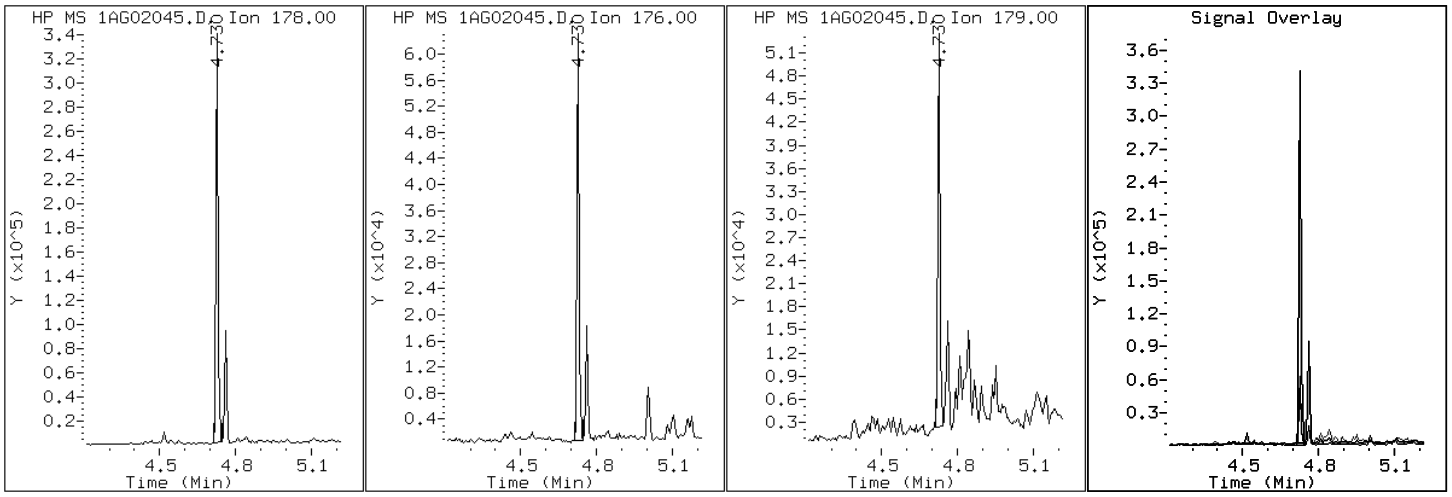
Data File: 1AG02045.D

Date: 02-JUL-2013 22:17

Client ID: CV1363A-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-5-a Operator: SCC

12 Phenanthrene



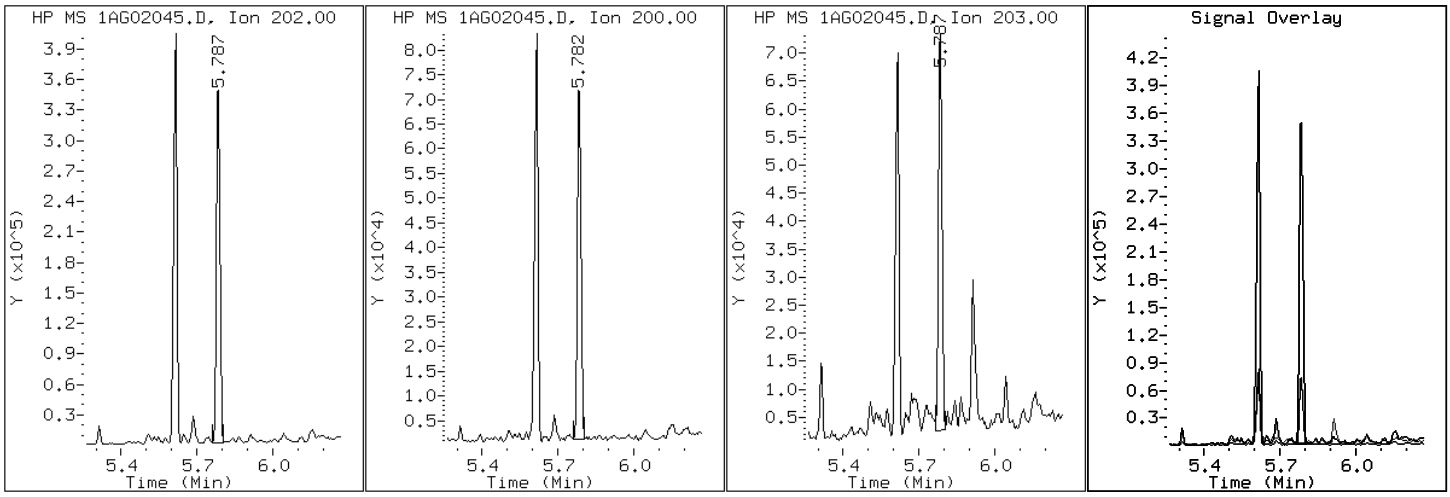
Data File: 1AG02045.D

Date: 02-JUL-2013 22:17

Client ID: CV1363A-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-a-5-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG02045.D
Inj. Date and Time: 02-JUL-2013 22:17
Instrument ID: BSMA5973.i
Client ID: CV1363A-CSD
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/03/2013

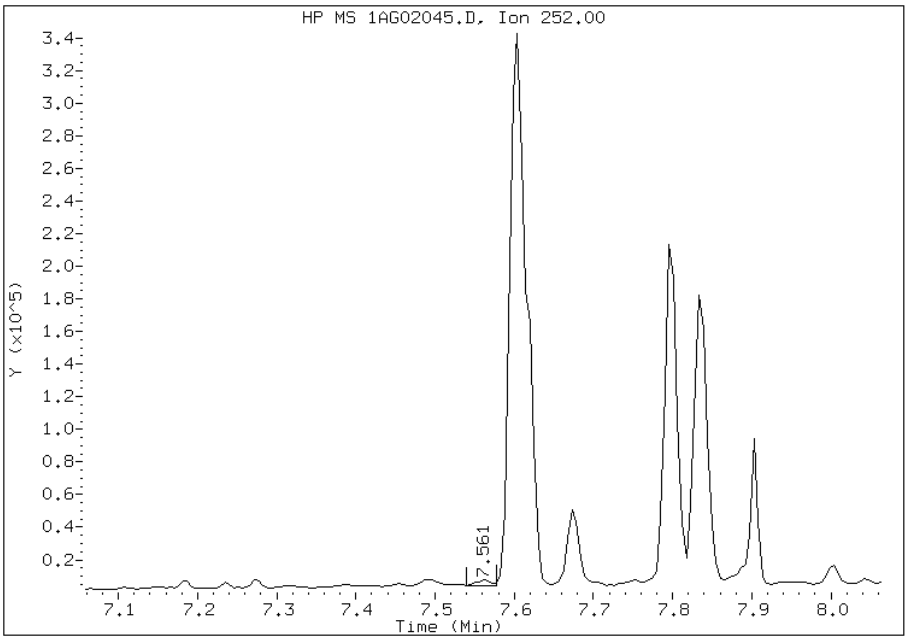
Processing Integration Results

RT: 7.56

Response: 4292

Amount: 0

Conc: 3



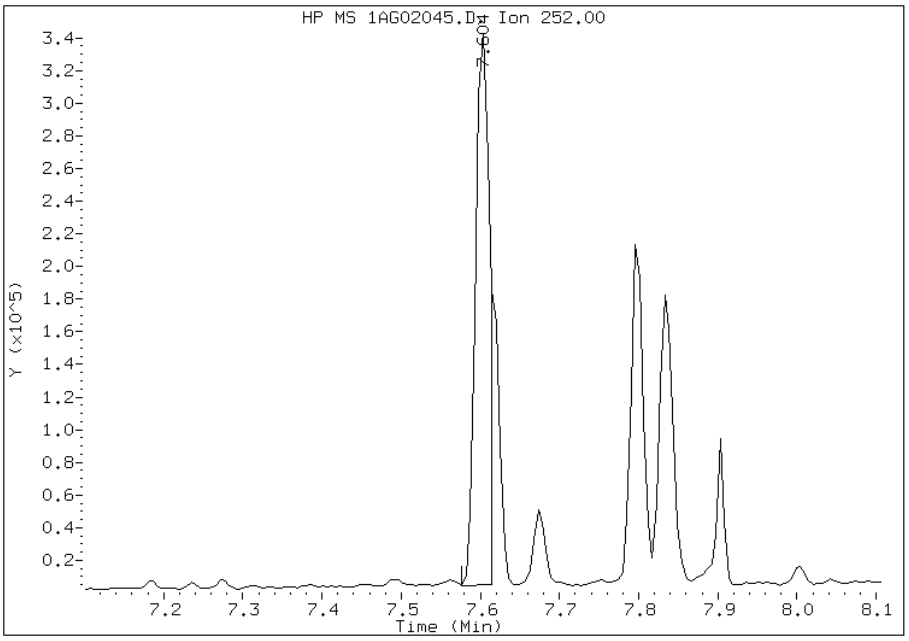
Manual Integration Results

RT: 7.60

Response: 414010

Amount: 4

Conc: 285



Manually Integrated By: cantins
Modification Date: 03-Jul-2013 15:59
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG02045.D
Inj. Date and Time: 02-JUL-2013 22:17
Instrument ID: BSMA5973.i
Client ID: CV1363A-CSD
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/03/2013

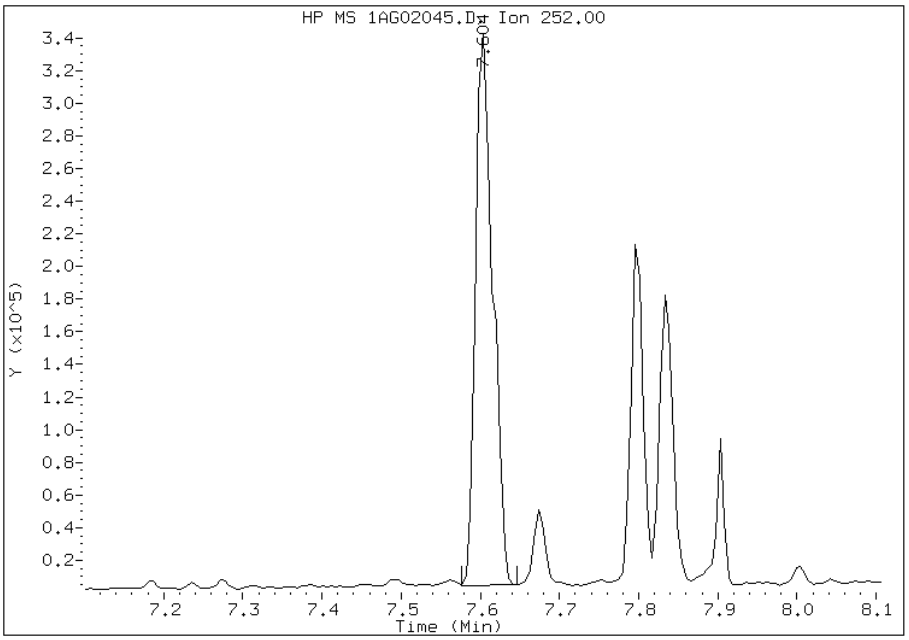
Processing Integration Results

RT: 7.60

Response: 501463

Amount: 4

Conc: 294



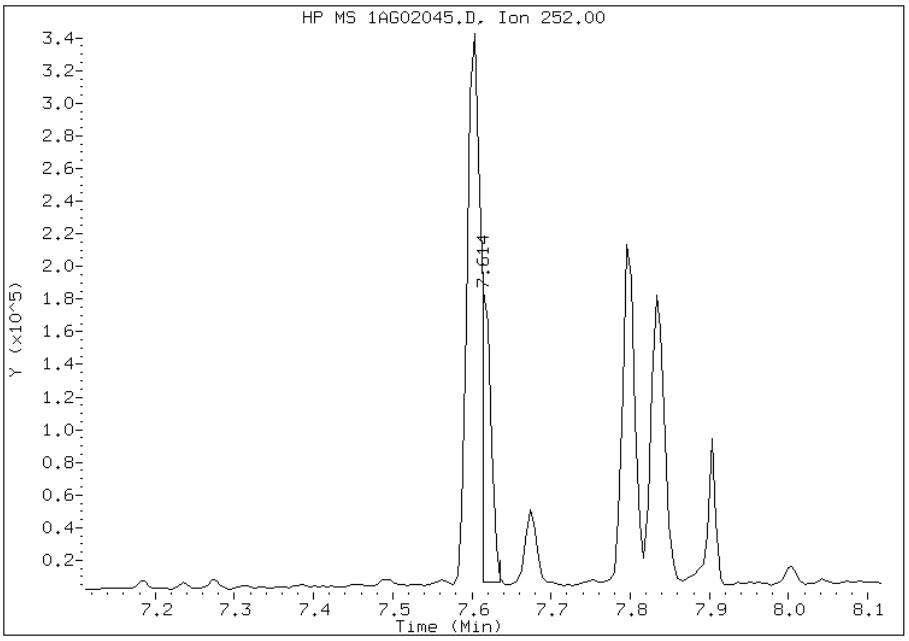
Manual Integration Results

RT: 7.61

Response: 142590

Amount: 1

Conc: 90



Manually Integrated By: cantins
Modification Date: 03-Jul-2013 15:59
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG02045.D
Inj. Date and Time: 02-JUL-2013 22:17
Instrument ID: BSMA5973.i
Client ID: CV1363A-CSD
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/03/2013

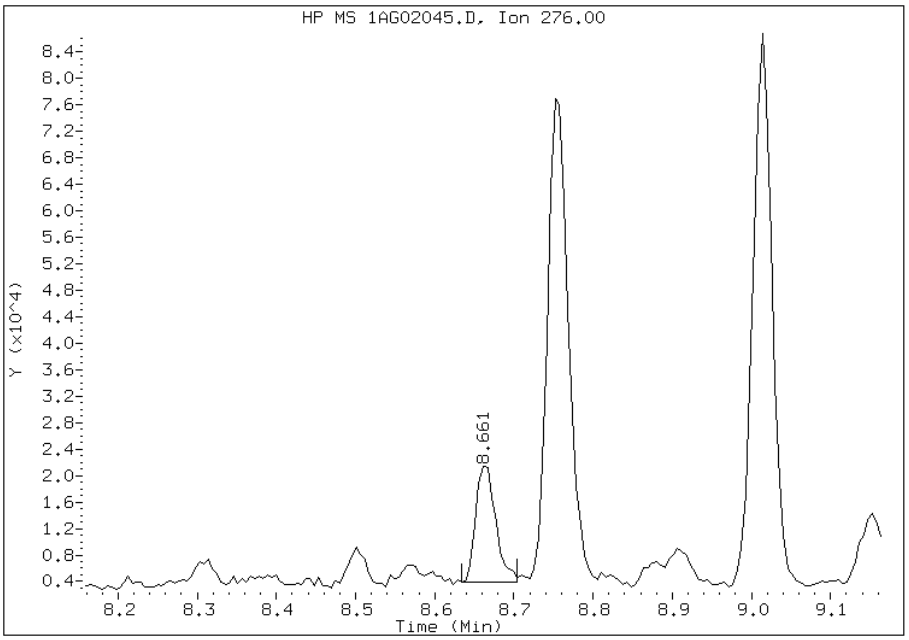
Processing Integration Results

RT: 8.66

Response: 30712

Amount: 0

Conc: 25



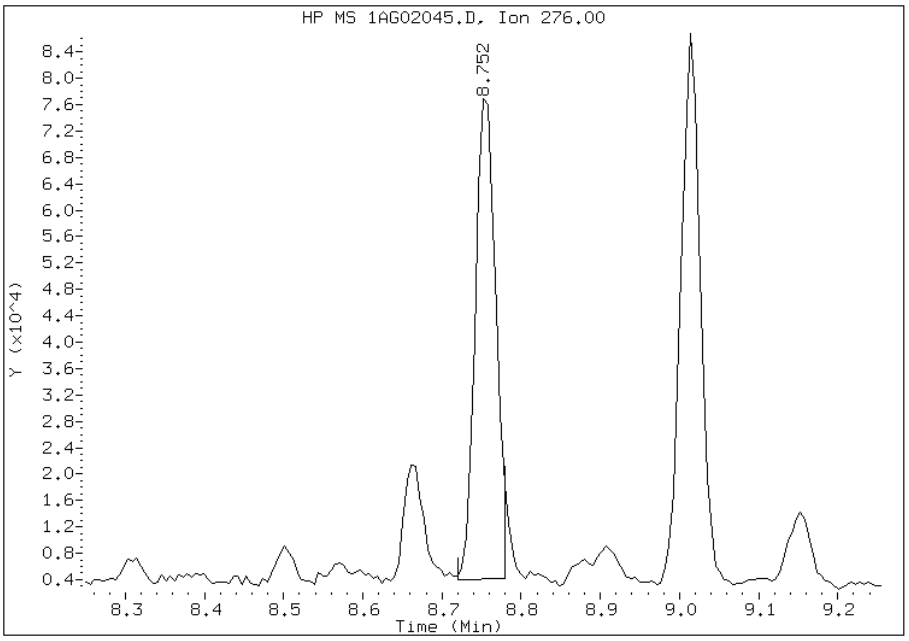
Manual Integration Results

RT: 8.75

Response: 129820

Amount: 1

Conc: 107



Manually Integrated By: cantins
Modification Date: 03-Jul-2013 15:59
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363B-CS | Lab Sample ID: 680-91719-6

Matrix: Solid | Lab File ID: 1AG02046.D

Analysis Method: 8270C LL | Date Collected: 06/24/2013 13:01

Extract. Method: 3546 | Date Extracted: 07/01/2013 13:43

Sample wt/vol: 14.97(g) | Date Analyzed: 07/02/2013 22:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139030 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	95
208-96-8	Acenaphthylene	190	U	190	24
120-12-7	Anthracene	130		40	20
56-55-3	Benzo[a]anthracene	190		38	19
50-32-8	Benzo[a]pyrene	180		49	25
205-99-2	Benzo[b]fluoranthene	320		58	29
191-24-2	Benzo[g,h,i]perylene	120		95	21
207-08-9	Benzo[k]fluoranthene	130		38	17
218-01-9	Chrysene	250		43	21
53-70-3	Dibenz(a,h)anthracene	37	J	95	19
206-44-0	Fluoranthene	350		95	19
86-73-7	Fluorene	95	U	95	19
193-39-5	Indeno[1,2,3-cd]pyrene	110		95	34
90-12-0	1-Methylnaphthalene	160	J	190	21
91-57-6	2-Methylnaphthalene	190		190	34
91-20-3	Naphthalene	120	J	190	21
85-01-8	Phenanthrene	290		38	19
129-00-0	Pyrene	230		95	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	45		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\1AG02046.D
Lab Smp Id: 680-91719-A-6-A Client Smp ID: CV1363B-CS
Inj Date : 02-JUL-2013 22:32
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-a-6-a
Misc Info : 680-91719-A-6-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\a-bFASTPAHi-m.m
Meth Date : 02-Jul-2013 11:39 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 46
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	15.702	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.695	2.683	(1.000)	2697039	40.0000	
* 7 Acenaphthene-d10	164	3.731	3.719	(1.000)	1529832	40.0000	
* 11 Phenanthrene-d10	188	4.714	4.697	(1.000)	2398858	40.0000	
$ 15 o-Terphenyl	230	5.008	4.996	(1.062)	57376	1.13145	358.6398
* 19 Chrysene-d12	240	6.782	6.748	(1.000)	3356064	40.0000	
* 24 Perylene-d12	264	7.882	7.849	(1.000)	3577174	40.0000	(H)
2 Naphthalene	128	2.706	2.699	(1.004)	26988	0.38325	121.4797
3 2-Methylnaphthalene	141	3.112	3.105	(1.155)	26635	0.60831	192.8184
4 1-Methylnaphthalene	142	3.170	3.158	(1.176)	25574	0.49264	156.1533
12 Phenanthrene	178	4.730	4.713	(1.003)	74365	0.92760	294.0255
13 Anthracene	178	4.762	4.745	(1.010)	22116	0.41079	130.2090(H)
16 Fluoranthene	202	5.612	5.594	(1.190)	103910	1.11327	352.8774
17 Pyrene	202	5.783	5.765	(0.853)	97044	0.71723	227.3417
18 Benzo(a)anthracene	228	6.771	6.738	(0.998)	78196	0.59615	188.9632

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
20 Chrysene	228	6.792	6.764	(1.002)	88312	0.80337	254.6475
21 Benzo(b)fluoranthene	252	7.599	7.571	(0.964)	115780	1.02262	324.1452(MH)
22 Benzo(k)fluoranthene	252	7.610	7.592	(0.965)	35032	0.42098	133.4393(QMH)
23 Benzo(a)pyrene	252	7.829	7.801	(0.993)	61427	0.58053	184.0132(H)
25 Indeno(1,2,3-cd)pyrene	276	8.737	8.698	(1.108)	34135	0.36139	114.5498(MH)
26 Dibenzo(a,h)anthracene	278	8.764	8.725	(1.112)	10845	0.11587	36.7273(H)
27 Benzo(g,h,i)perylene	276	8.993	8.949	(1.141)	37279	0.37064	117.4816(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG02046.D

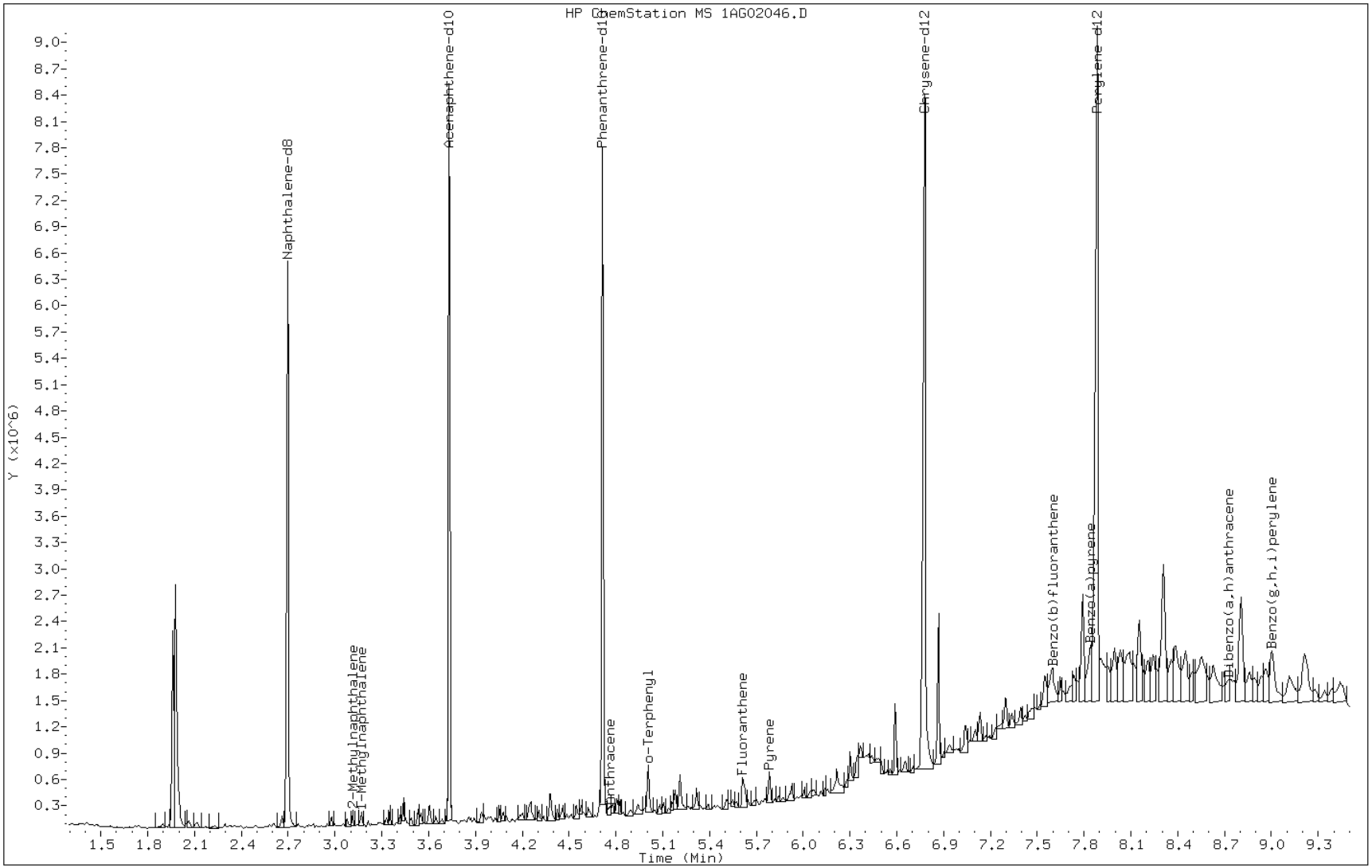
Date: 02-JUL-2013 22:32

Client ID: CV1363B-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-6-a

Operator: SCC



Data File: 1AG02046.D

Date: 02-JUL-2013 22:32

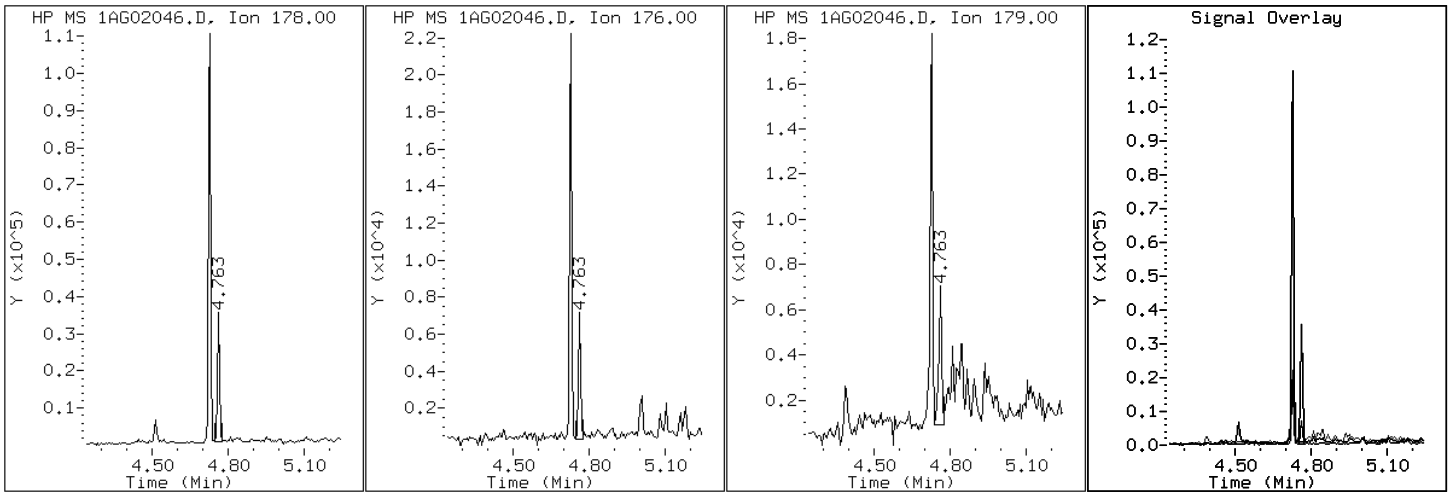
Client ID: CV1363B-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-6-a

Operator: SCC

13 Anthracene



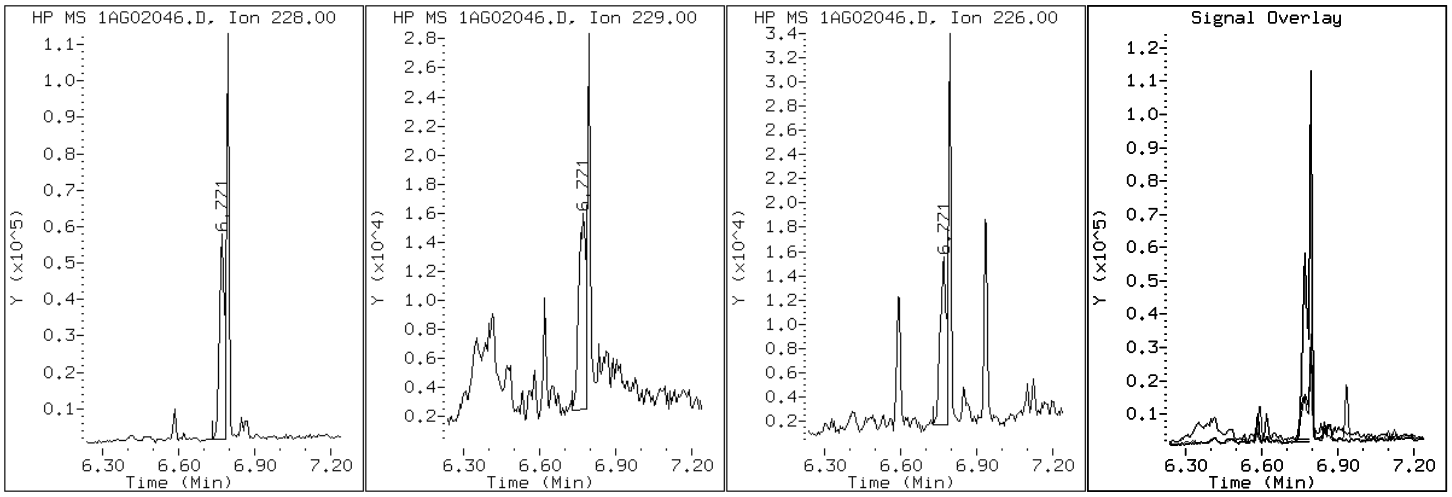
Data File: 1AG02046.D

Date: 02-JUL-2013 22:32

Client ID: CV1363B-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-6-a Operator: SCC

18 Benzo(a)anthracene



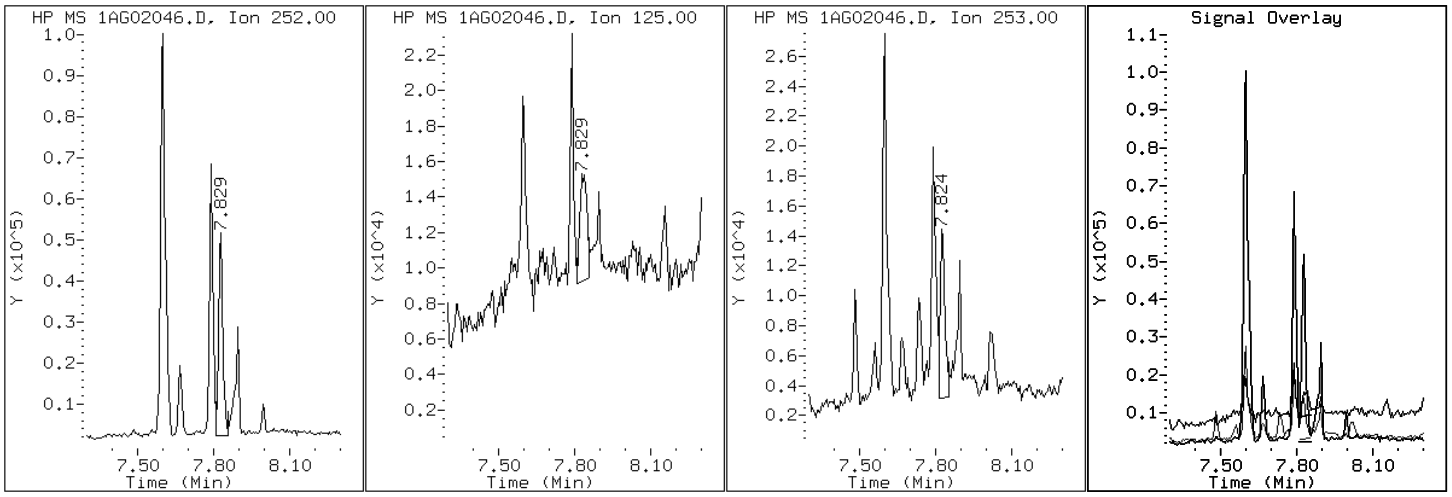
Data File: 1AG02046.D

Date: 02-JUL-2013 22:32

Client ID: CV1363B-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-6-a Operator: SCC

23 Benzo(a)pyrene



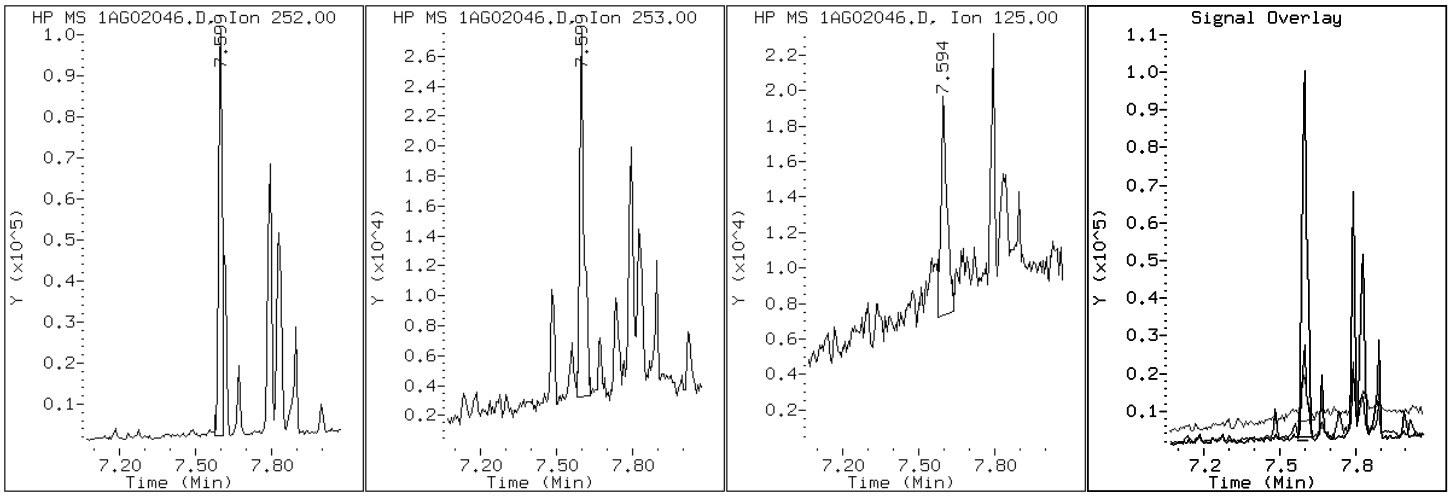
Data File: 1AG02046.D

Date: 02-JUL-2013 22:32

Client ID: CV1363B-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-6-a Operator: SCC

21 Benzo(b)fluoranthene



Data File: 1AG02046.D

Date: 02-JUL-2013 22:32

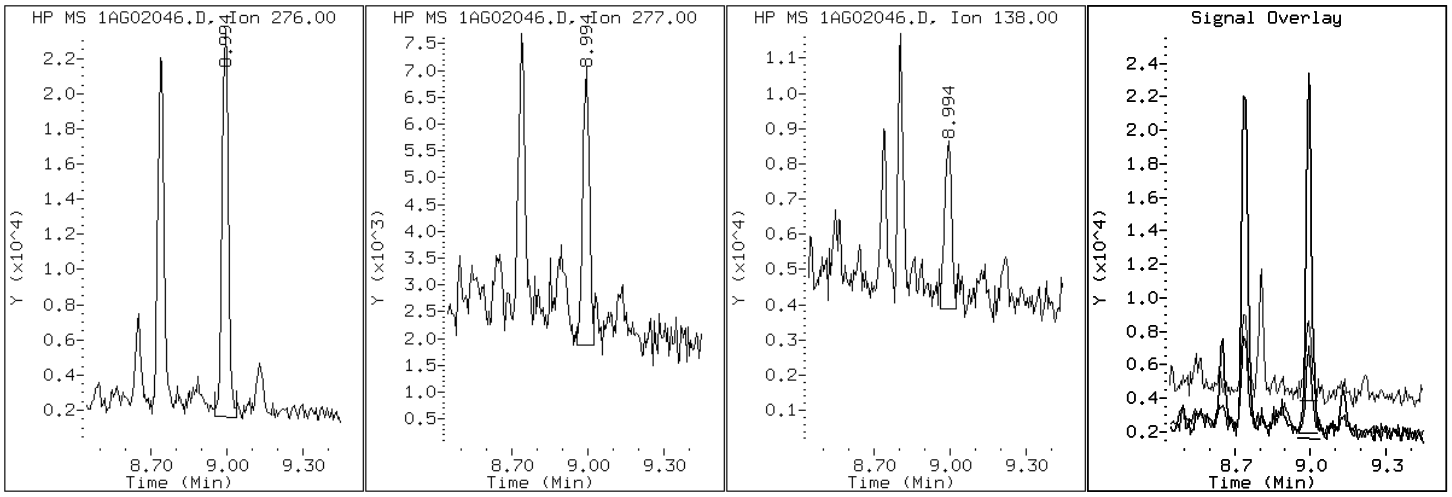
Client ID: CV1363B-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-6-a

Operator: SCC

27 Benzo(g,h,i)perylene



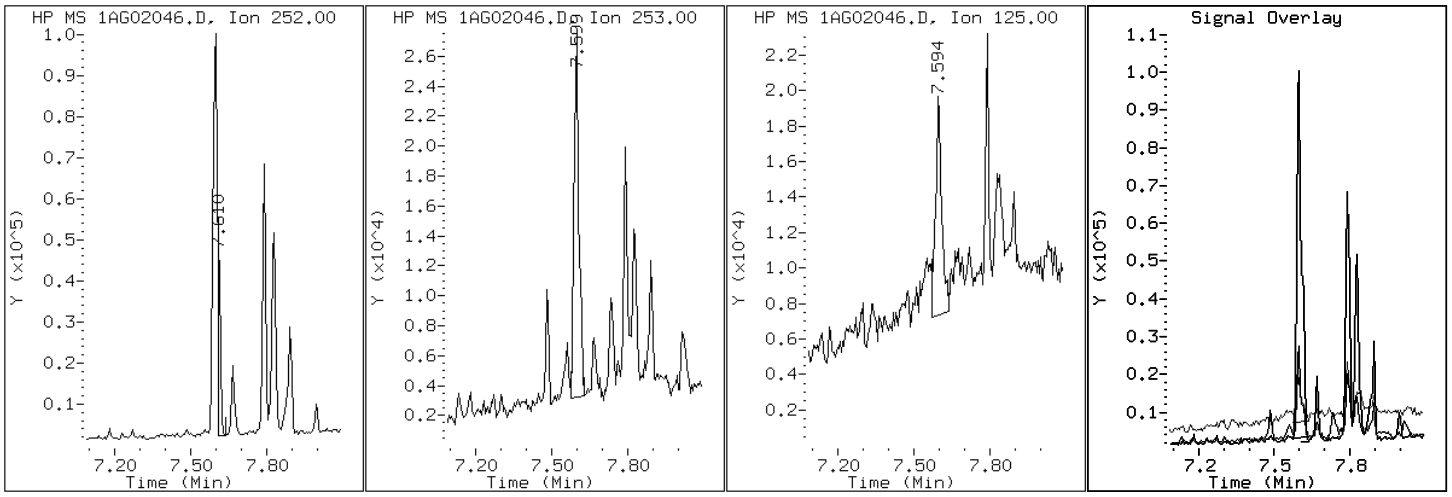
Data File: 1AG02046.D

Date: 02-JUL-2013 22:32

Client ID: CV1363B-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-6-a Operator: SCC

22 Benzo(k)fluoranthene



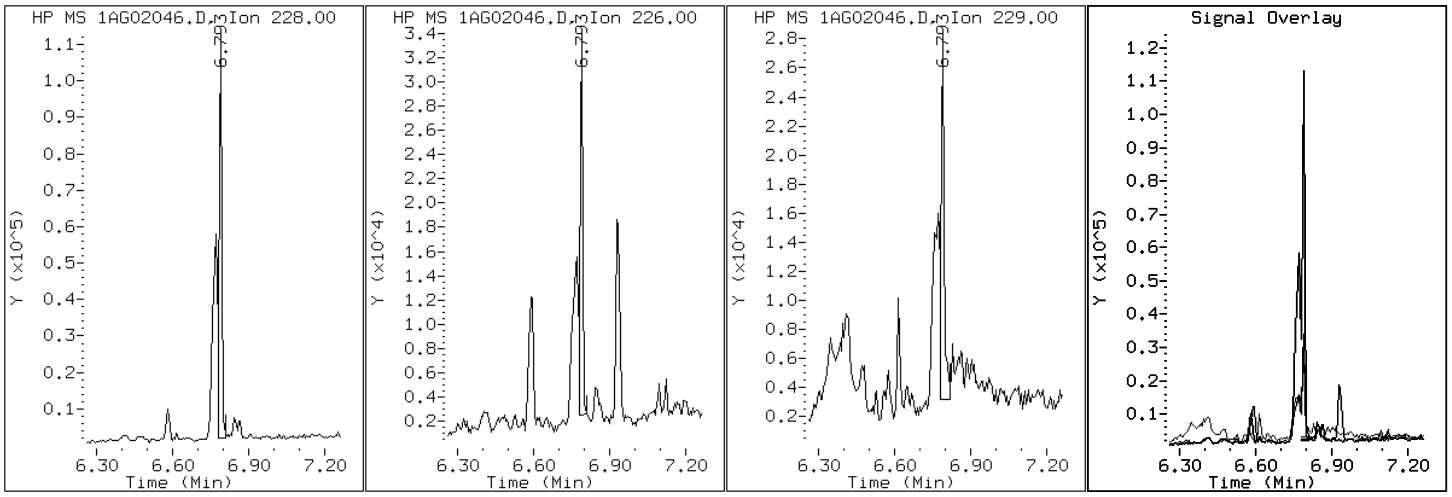
Data File: 1AG02046.D

Date: 02-JUL-2013 22:32

Client ID: CV1363B-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-6-a Operator: SCC

20 Chrysene



Data File: 1AG02046.D

Date: 02-JUL-2013 22:32

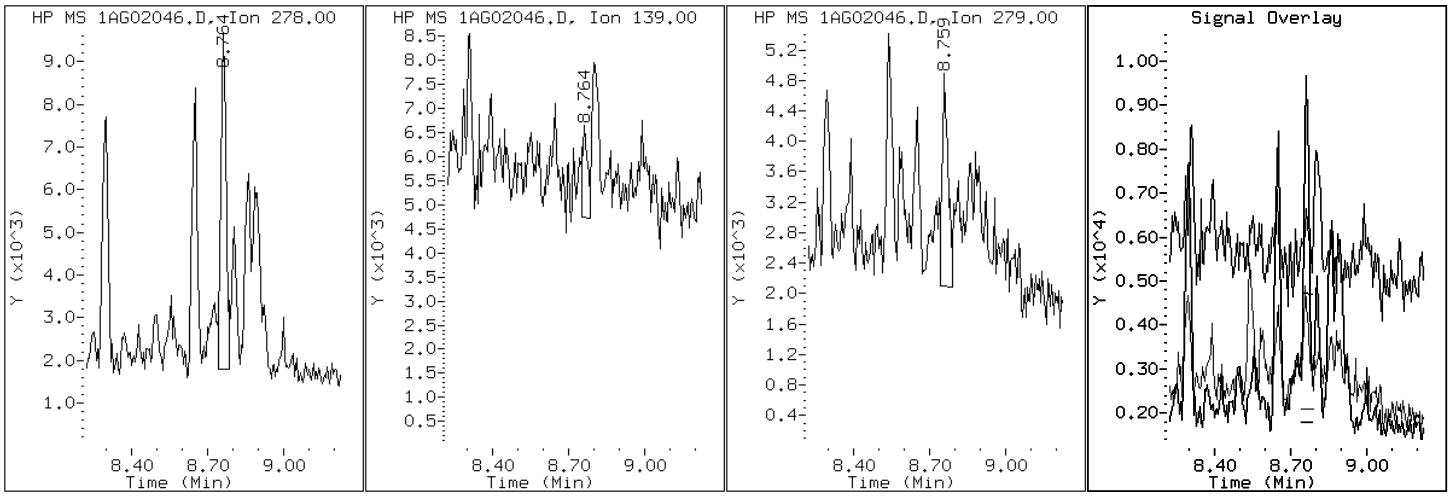
Client ID: CV1363B-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-6-a

Operator: SCC

26 Dibenzo(a,h)anthracene



Data File: 1AG02046.D

Date: 02-JUL-2013 22:32

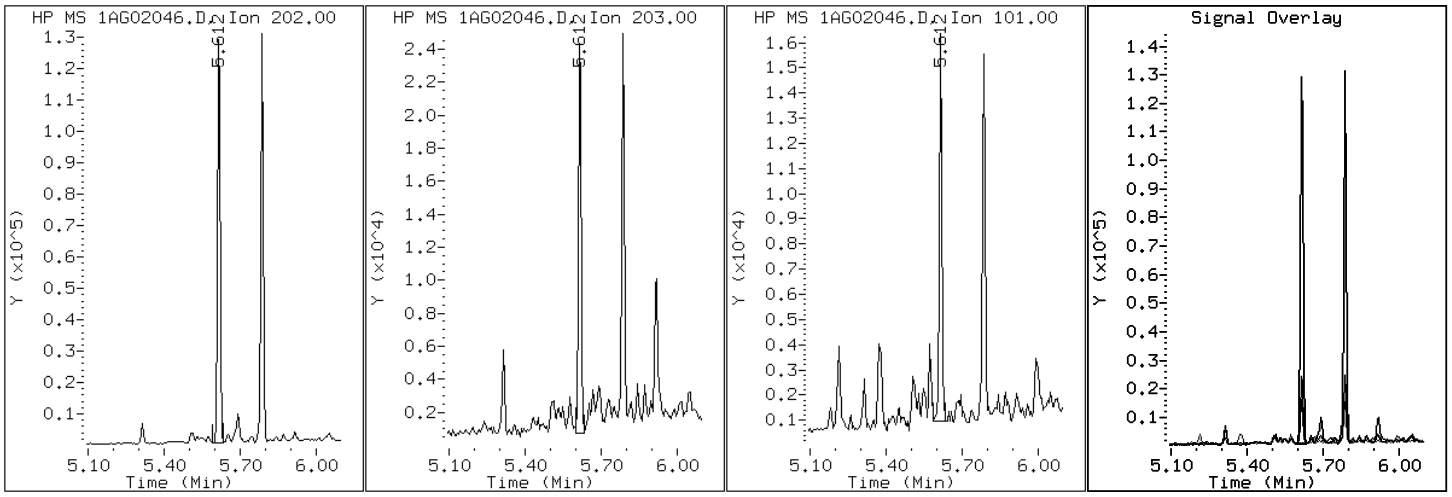
Client ID: CV1363B-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-6-a

Operator: SCC

16 Fluoranthene



Data File: 1AG02046.D

Date: 02-JUL-2013 22:32

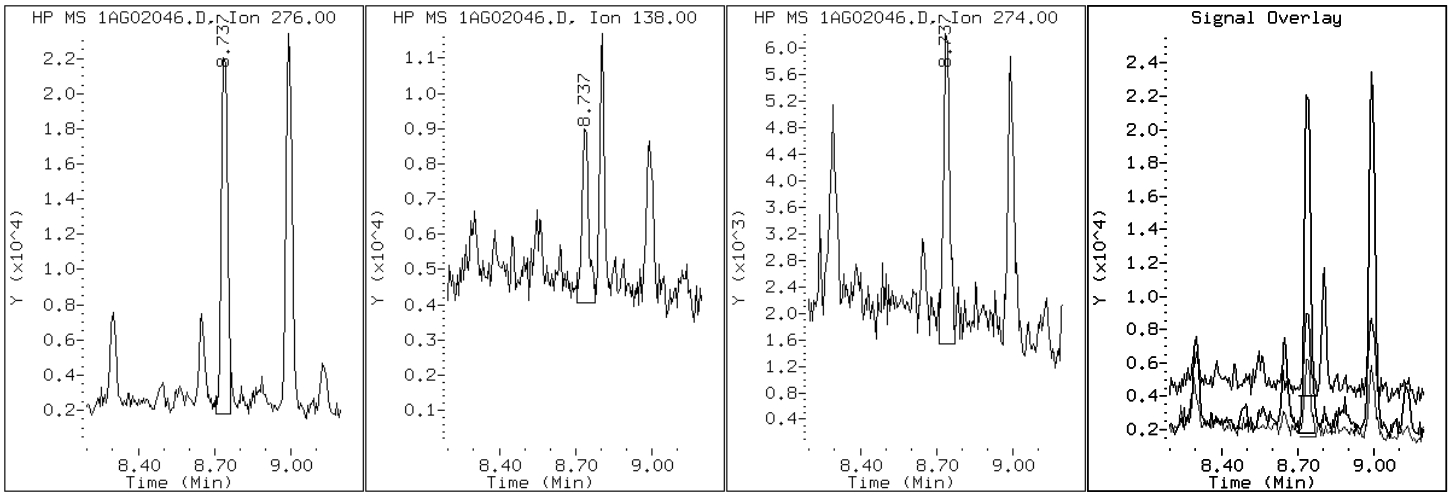
Client ID: CV1363B-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-6-a

Operator: SCC

25 Indeno(1,2,3-cd)pyrene



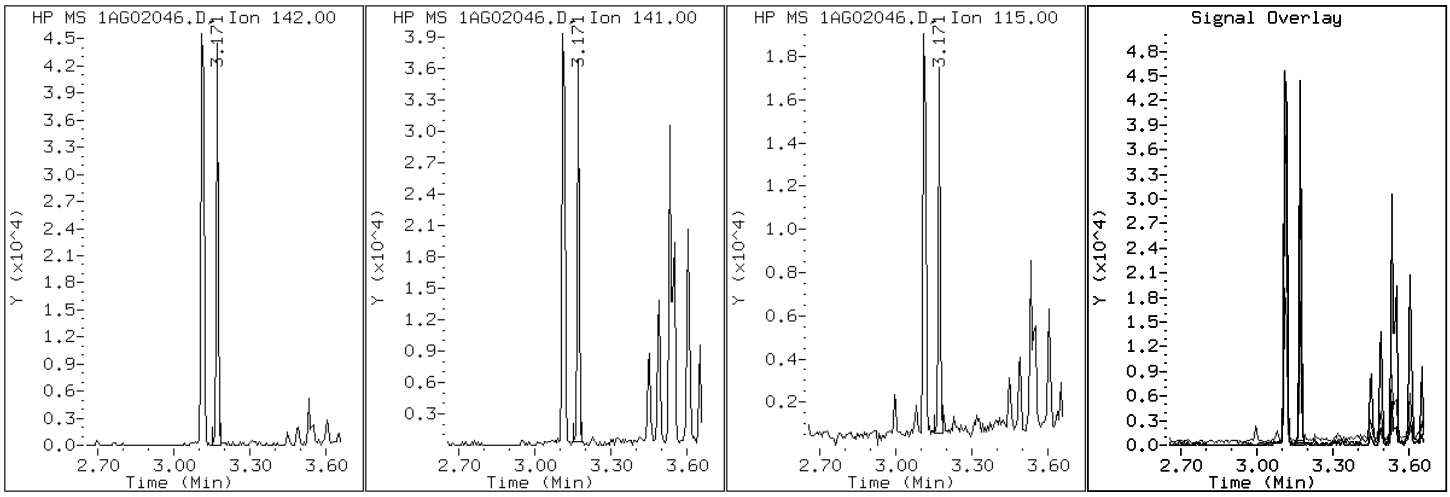
Data File: 1AG02046.D

Date: 02-JUL-2013 22:32

Client ID: CV1363B-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-6-a Operator: SCC

4 1-Methylnaphthalene



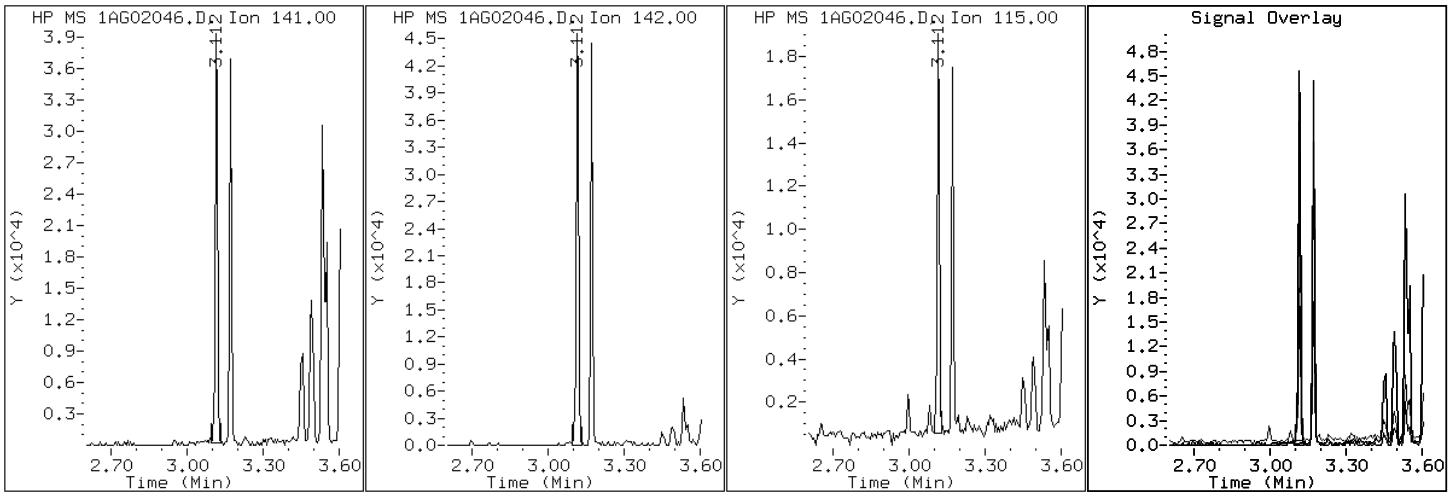
Data File: 1AG02046.D

Date: 02-JUL-2013 22:32

Client ID: CV1363B-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-6-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AG02046.D

Date: 02-JUL-2013 22:32

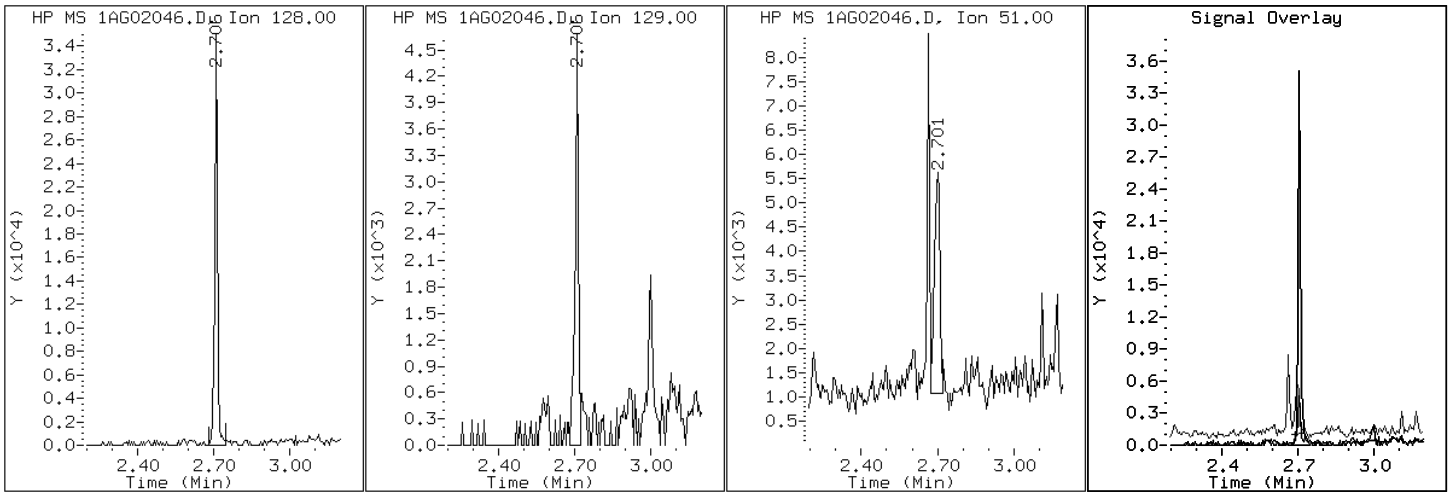
Client ID: CV1363B-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-6-a

Operator: SCC

2 Naphthalene



Data File: 1AG02046.D

Date: 02-JUL-2013 22:32

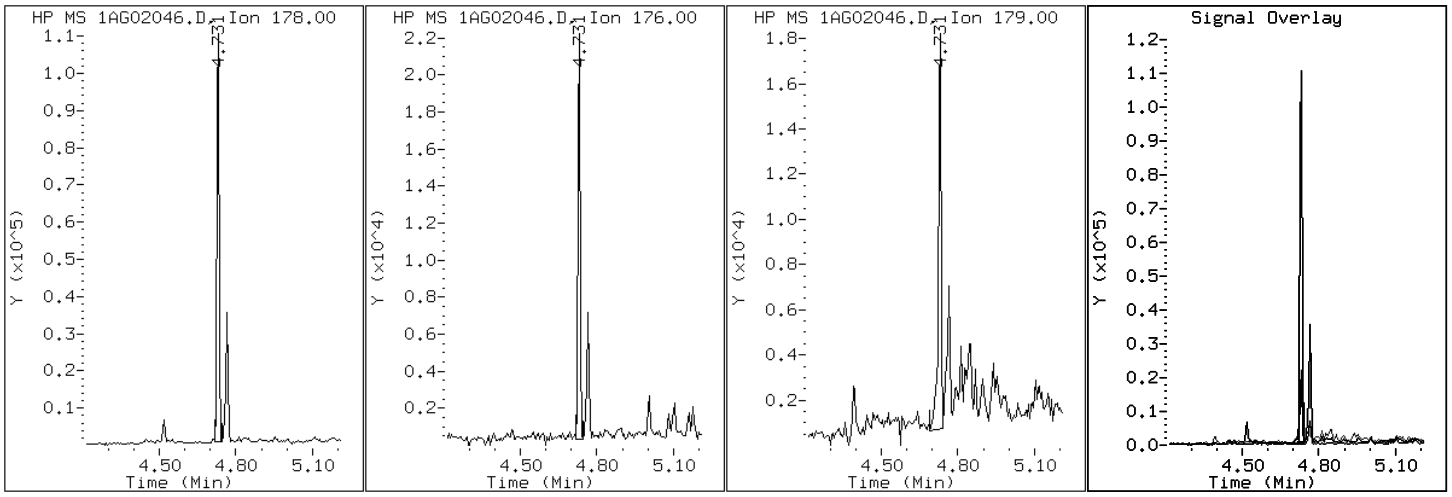
Client ID: CV1363B-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-6-a

Operator: SCC

12 Phenanthrene



Data File: 1AG02046.D

Date: 02-JUL-2013 22:32

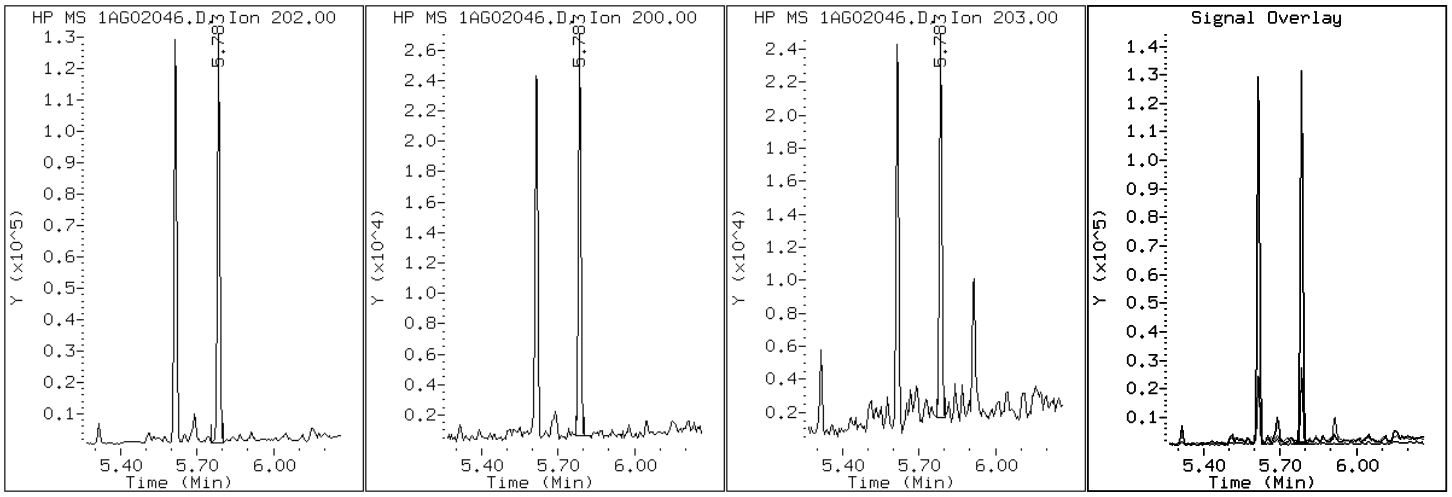
Client ID: CV1363B-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-6-a

Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG02046.D
Inj. Date and Time: 02-JUL-2013 22:32
Instrument ID: BSMA5973.i
Client ID: CV1363B-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/03/2013

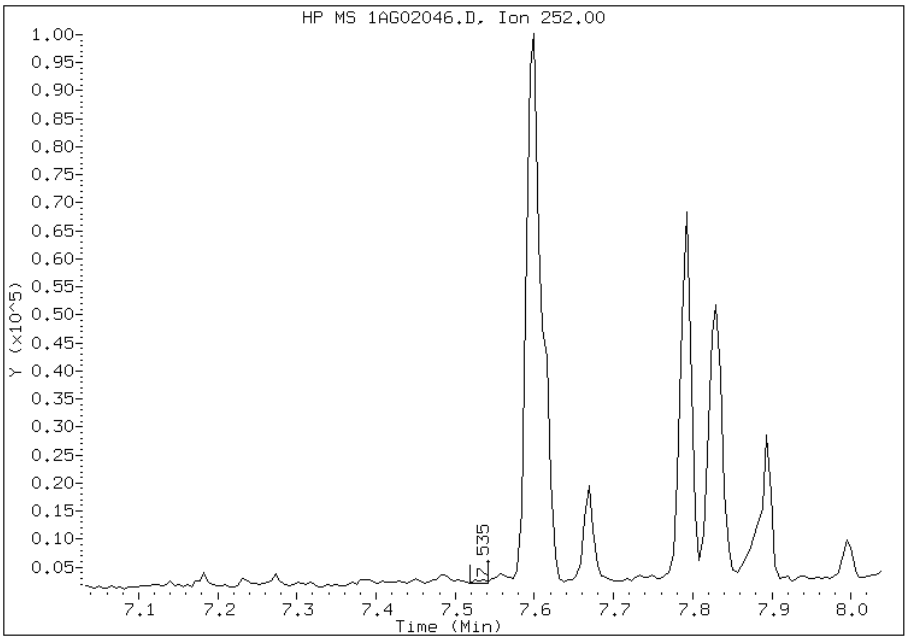
Processing Integration Results

RT: 7.54

Response: 565

Amount: 0

Conc: 2



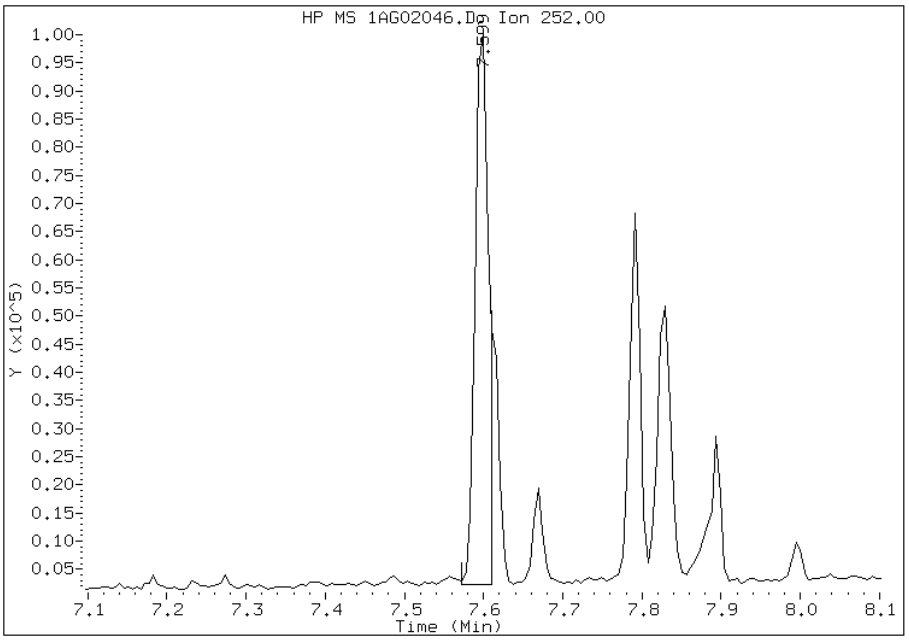
Manual Integration Results

RT: 7.60

Response: 115780

Amount: 1

Conc: 324



Manually Integrated By: cantins
Modification Date: 03-Jul-2013 16:01
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG02046.D
Inj. Date and Time: 02-JUL-2013 22:32
Instrument ID: BSMA5973.i
Client ID: CV1363B-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/03/2013

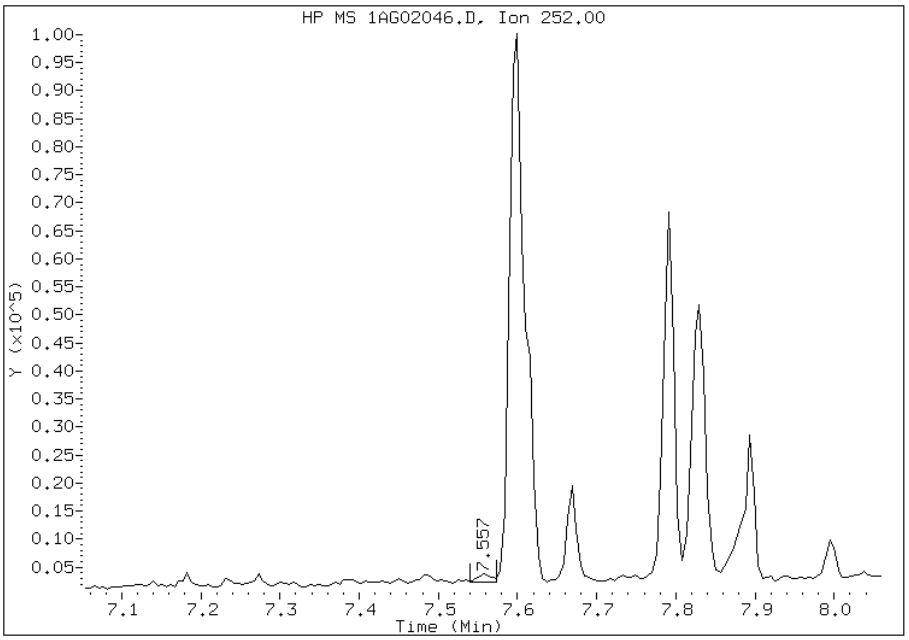
Processing Integration Results

RT: 7.56

Response: 1650

Amount: 0

Conc: 62



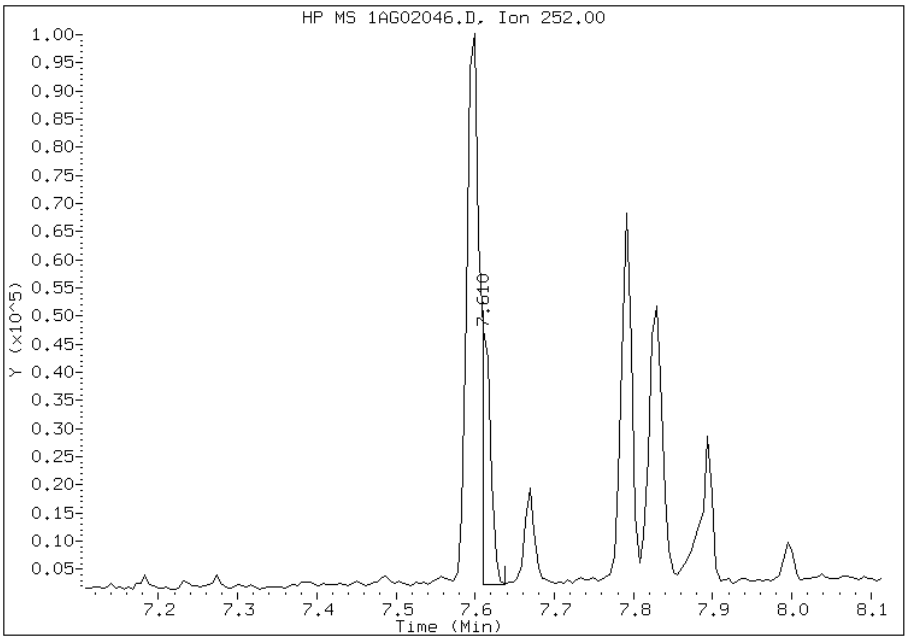
Manual Integration Results

RT: 7.61

Response: 35032

Amount: 0

Conc: 133



Manually Integrated By: perrint
Modification Date: 03-Jul-2013 16:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG02046.D
Inj. Date and Time: 02-JUL-2013 22:32
Instrument ID: BSMA5973.i
Client ID: CV1363B-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/03/2013

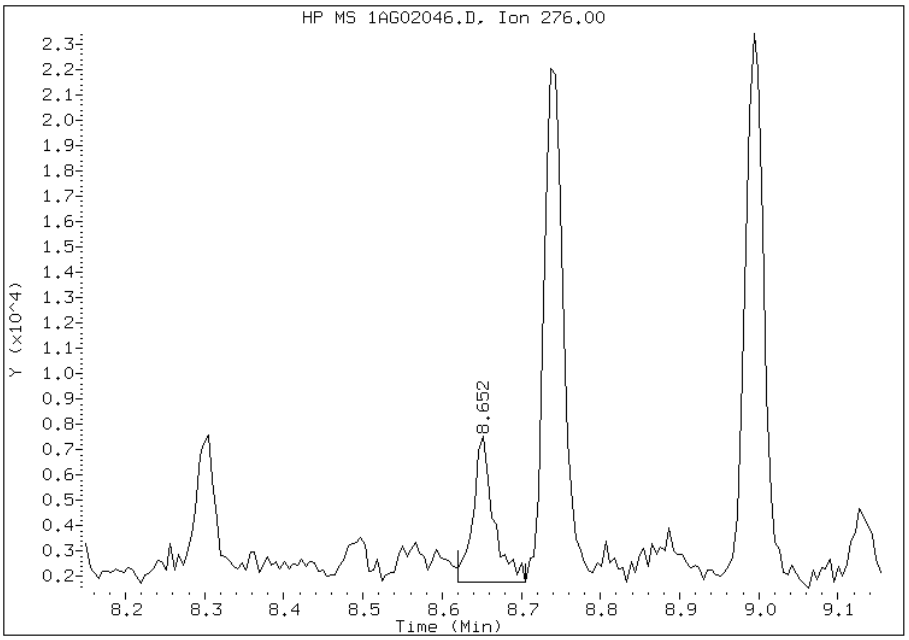
Processing Integration Results

RT: 8.65

Response: 10275

Amount: 0

Conc: 34



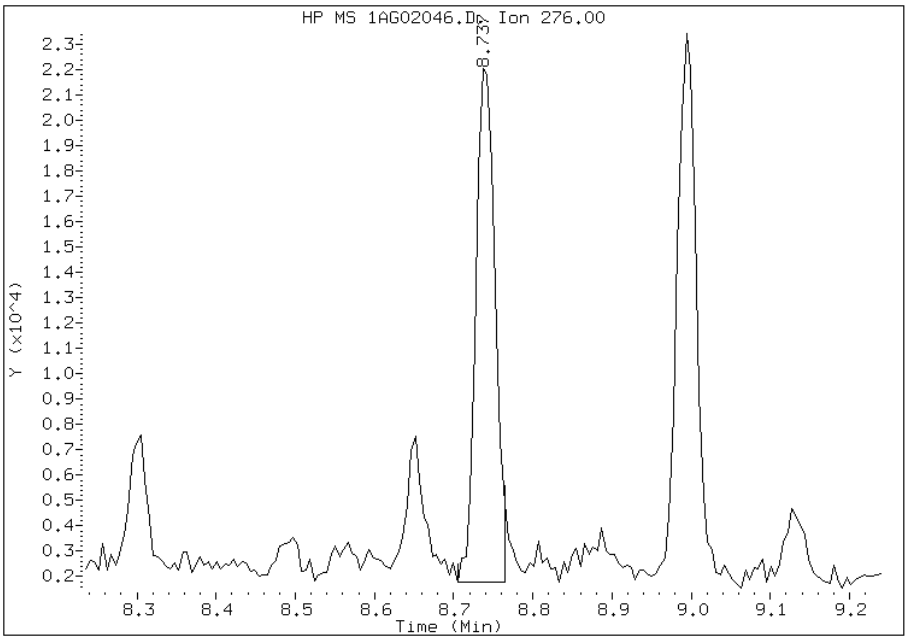
Manual Integration Results

RT: 8.74

Response: 34135

Amount: 0

Conc: 115



Manually Integrated By: cantins
Modification Date: 03-Jul-2013 16:02
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363C-CS | Lab Sample ID: 680-91719-7

Matrix: Solid | Lab File ID: 1AG02047.D

Analysis Method: 8270C LL | Date Collected: 06/24/2013 13:09

Extract. Method: 3546 | Date Extracted: 07/01/2013 13:43

Sample wt/vol: 14.92(g) | Date Analyzed: 07/02/2013 22:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 11.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139030 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	45	J	46	5.7
120-12-7	Anthracene	80		9.6	4.8
56-55-3	Benzo[a]anthracene	220		9.1	4.5
50-32-8	Benzo[a]pyrene	220		12	5.9
205-99-2	Benzo[b]fluoranthene	350		14	7.0
191-24-2	Benzo[g,h,i]perylene	130		23	5.0
207-08-9	Benzo[k]fluoranthene	150		9.1	4.1
218-01-9	Chrysene	270		10	5.1
53-70-3	Dibenz(a,h)anthracene	47		23	4.7
206-44-0	Fluoranthene	370		23	4.6
86-73-7	Fluorene	23	U	23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	140		23	8.1
90-12-0	1-Methylnaphthalene	91		46	5.0
91-57-6	2-Methylnaphthalene	130		46	8.1
91-20-3	Naphthalene	140		46	5.0
85-01-8	Phenanthrene	240		9.1	4.5
129-00-0	Pyrene	260		23	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	46		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\1AG02047.D
Lab Smp Id: 680-91719-A-7-A Client Smp ID: CV1363C-CS
Inj Date : 02-JUL-2013 22:47
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-a-7-a
Misc Info : 680-91719-A-7-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\a-bFASTPAHi-m.m
Meth Date : 02-Jul-2013 11:39 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 47
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.920	Weight Extracted
M	11.900	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.693	2.683	(1.000)	2681875	40.0000	
* 7 Acenaphthene-d10	164	3.735	3.719	(1.000)	1511587	40.0000	
* 11 Phenanthrene-d10	188	4.718	4.697	(1.000)	2362345	40.0000	
$ 15 o-Terphenyl	230	5.007	4.996	(1.061)	225092	4.59655	349.6941
* 19 Chrysene-d12	240	6.780	6.748	(1.000)	3336935	40.0000	
* 24 Perylene-d12	264	7.891	7.849	(1.000)	3553594	40.0000	(H)
2 Naphthalene	128	2.704	2.699	(1.004)	130107	1.85806	141.3563
3 2-Methylnaphthalene	141	3.115	3.105	(1.157)	84764	1.72675	131.3666
4 1-Methylnaphthalene	142	3.169	3.158	(1.176)	69340	1.19227	90.7050
6 Acenaphthylene	152	3.644	3.634	(0.976)	46296	0.59397	45.1879
12 Phenanthrene	178	4.729	4.713	(1.002)	270028	3.15176	239.7778
13 Anthracene	178	4.761	4.745	(1.009)	87215	1.04735	79.6797
16 Fluoranthene	202	5.616	5.594	(1.190)	484839	4.80777	365.7634
17 Pyrene	202	5.787	5.765	(0.853)	456605	3.39399	258.2060

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
18 Benzo(a)anthracene	228	6.775	6.738	(0.999)	337114	2.90682	221.1438
20 Chrysene	228	6.796	6.764	(1.002)	388033	3.55016	270.0870
21 Benzo(b)fluoranthene	252	7.603	7.571	(0.963)	510703	4.54071	345.4454(MH)
22 Benzo(k)fluoranthene	252	7.614	7.592	(0.965)	260196	2.00468	152.5112(MH)
23 Benzo(a)pyrene	252	7.833	7.801	(0.993)	308309	2.93309	223.1418(H)
25 Indeno(1,2,3-cd)pyrene	276	8.762	8.698	(1.110)	166733	1.77691	135.1827(MH)
26 Dibenzo(a,h)anthracene	278	8.784	8.725	(1.113)	57802	0.62166	47.2941(H)
27 Benzo(g,h,i)perylene	276	9.019	8.949	(1.143)	176591	1.76735	134.4557(H)

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG02047.D

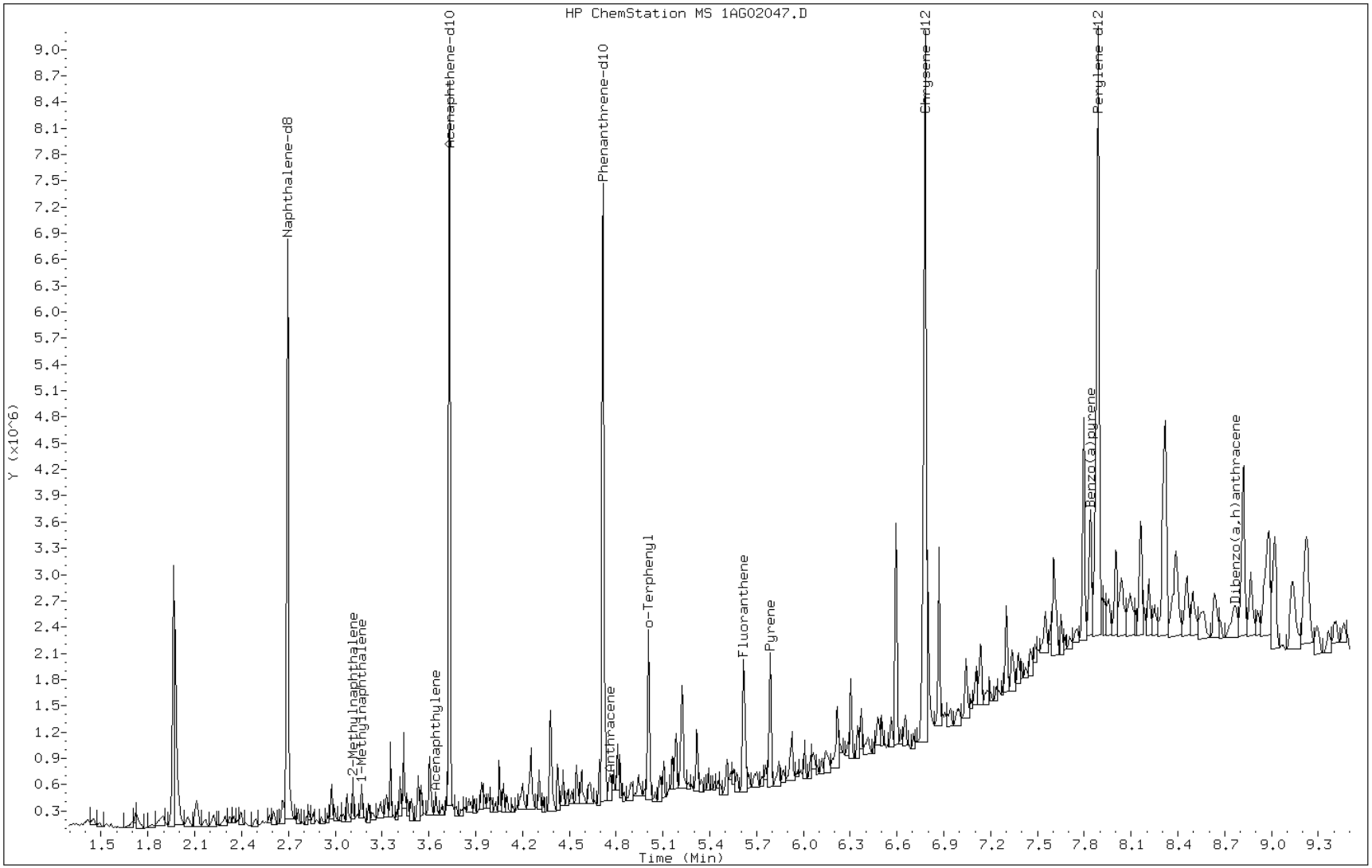
Date: 02-JUL-2013 22:47

Client ID: CV1363C-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-7-a

Operator: SCC



Data File: 1AG02047.D

Date: 02-JUL-2013 22:47

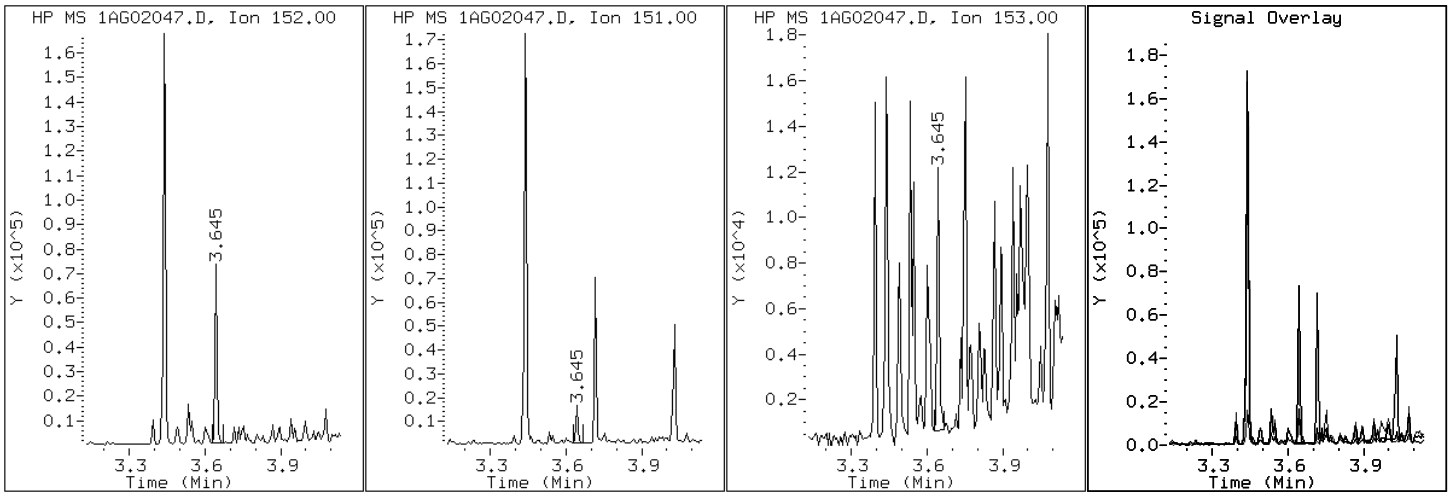
Client ID: CV1363C-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-7-a

Operator: SCC

6 Acenaphthylene



Data File: 1AG02047.D

Date: 02-JUL-2013 22:47

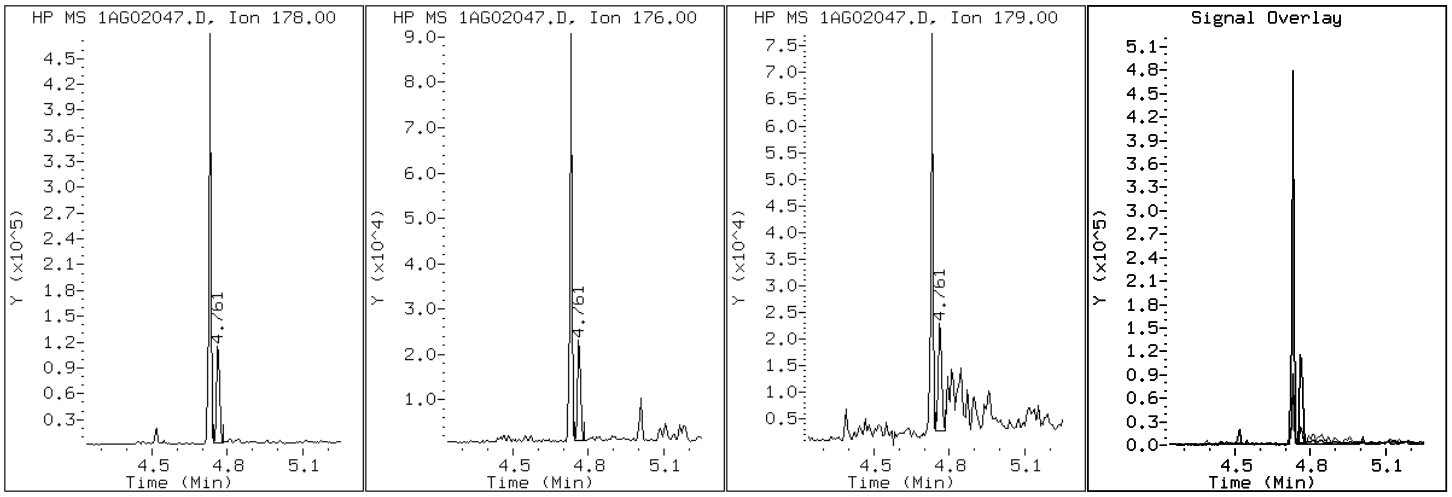
Client ID: CV1363C-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-7-a

Operator: SCC

13 Anthracene



Data File: 1AG02047.D

Date: 02-JUL-2013 22:47

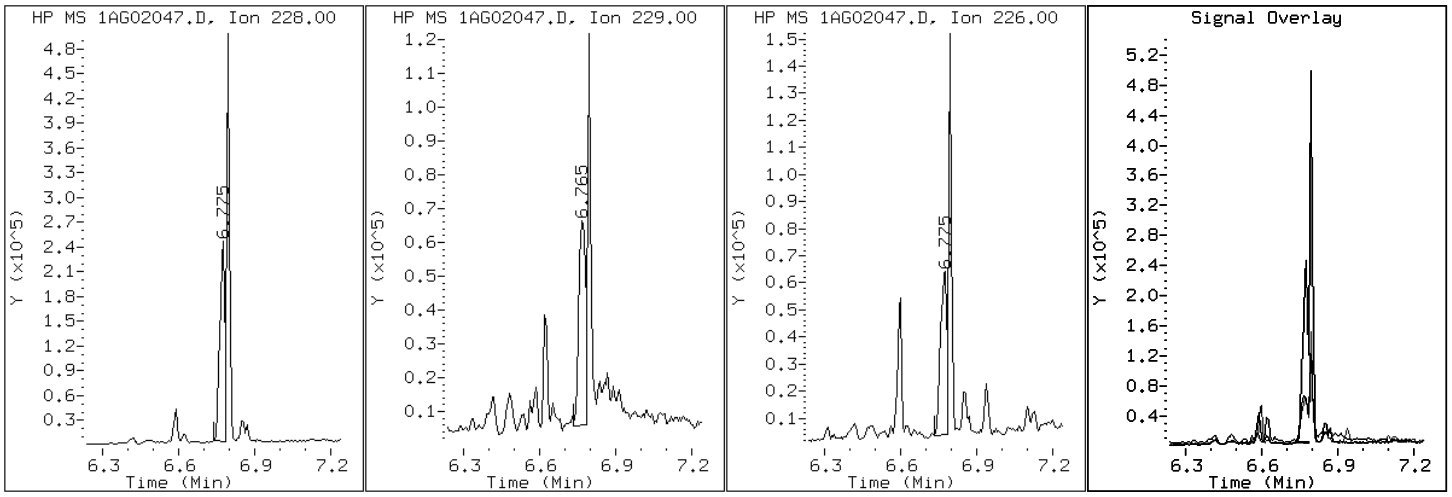
Client ID: CV1363C-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-7-a

Operator: SCC

18 Benzo(a)anthracene



Data File: 1AG02047.D

Date: 02-JUL-2013 22:47

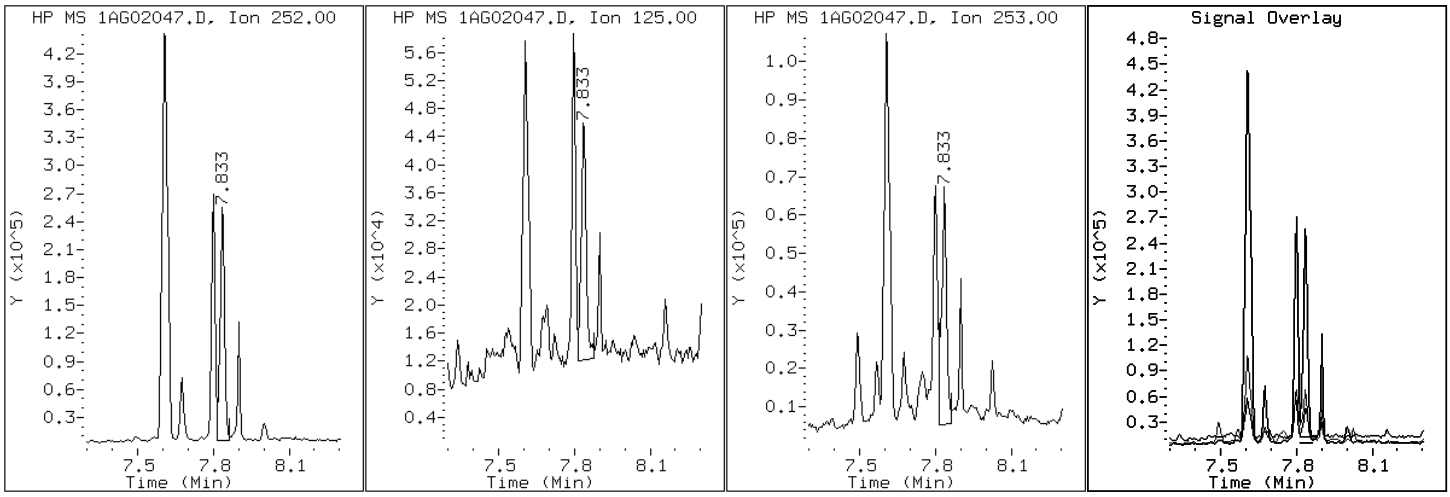
Client ID: CV1363C-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-7-a

Operator: SCC

23 Benzo(a)pyrene



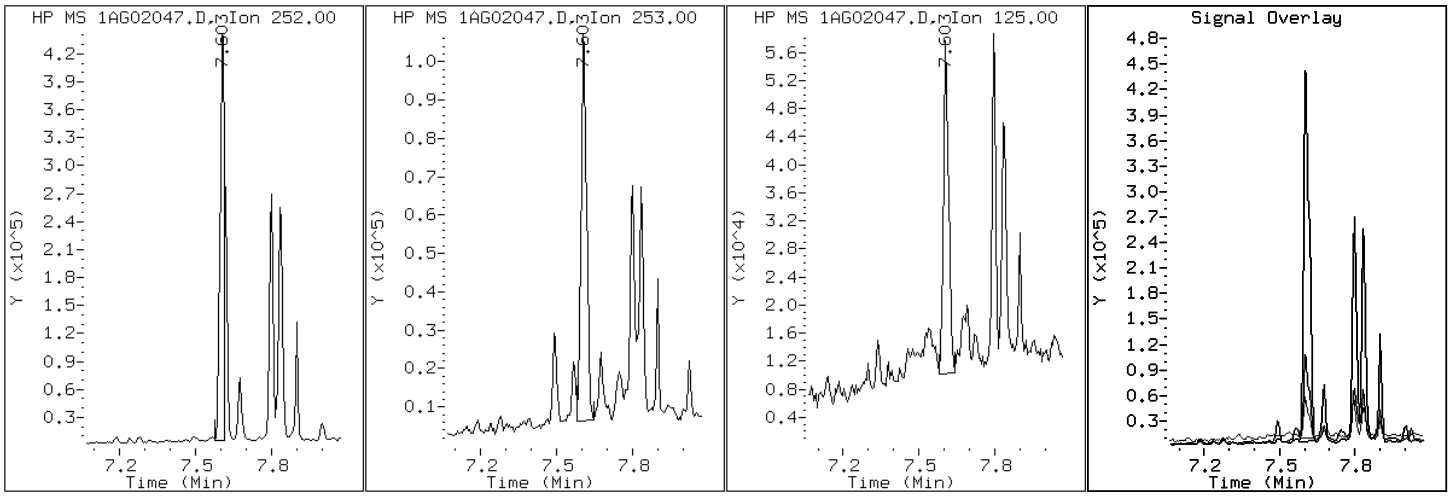
Data File: 1AG02047.D

Date: 02-JUL-2013 22:47

Client ID: CV1363C-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-7-a Operator: SCC

21 Benzo(b)fluoranthene



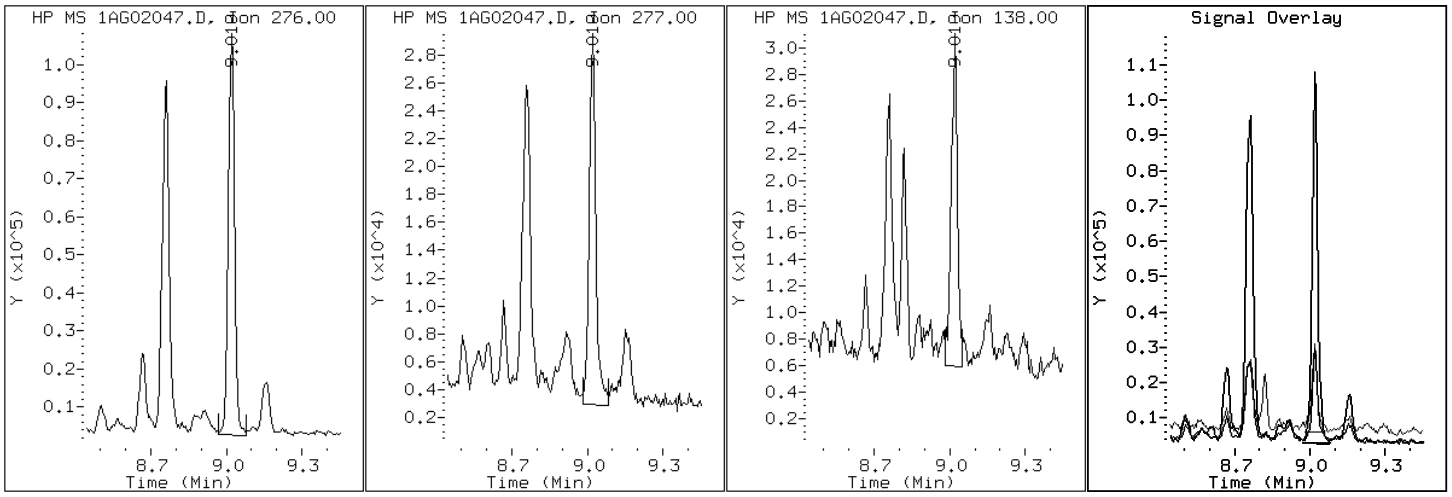
Data File: 1AG02047.D

Date: 02-JUL-2013 22:47

Client ID: CV1363C-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-7-a Operator: SCC

27 Benzo(g,h,i)perylene



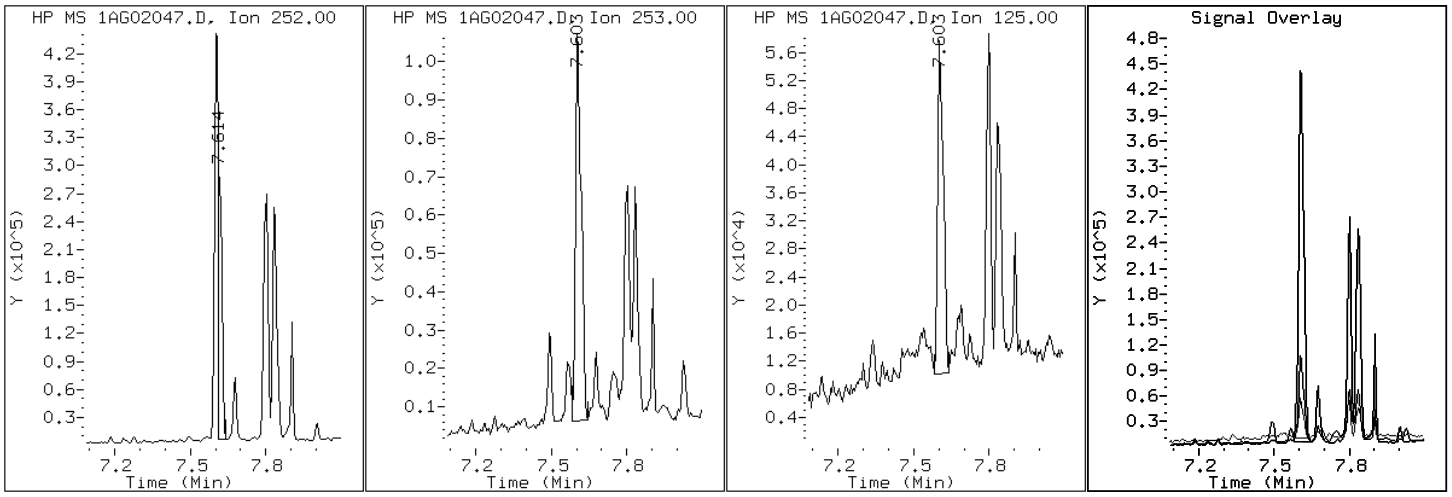
Data File: 1AG02047.D

Date: 02-JUL-2013 22:47

Client ID: CV1363C-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-7-a Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1AG02047.D

Date: 02-JUL-2013 22:47

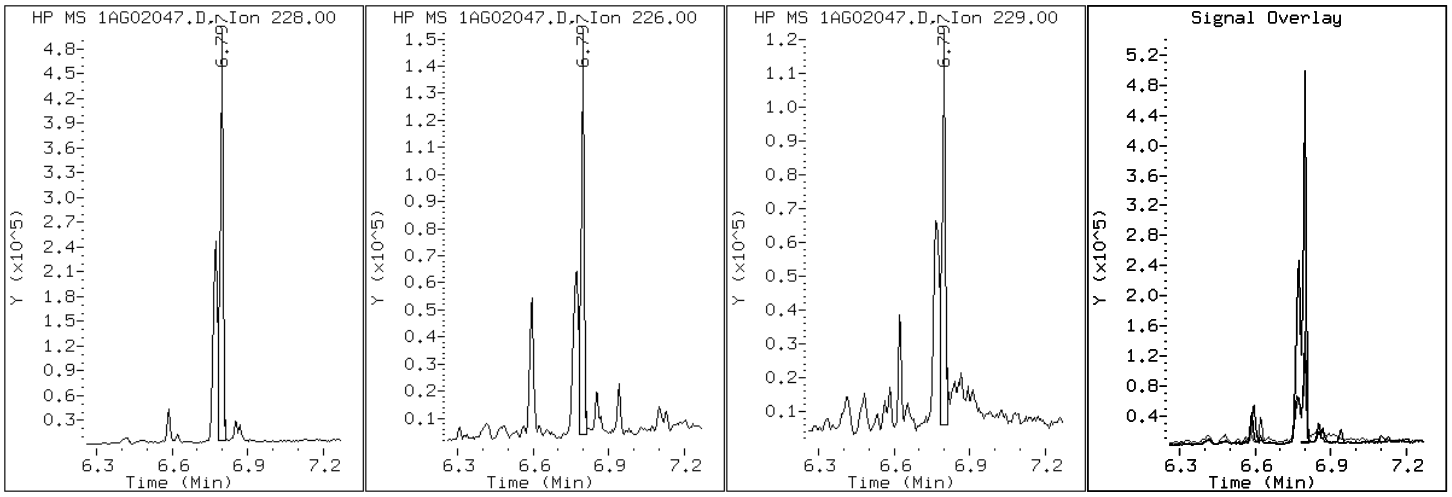
Client ID: CV1363C-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-7-a

Operator: SCC

20 Chrysene



Data File: 1AG02047.D

Date: 02-JUL-2013 22:47

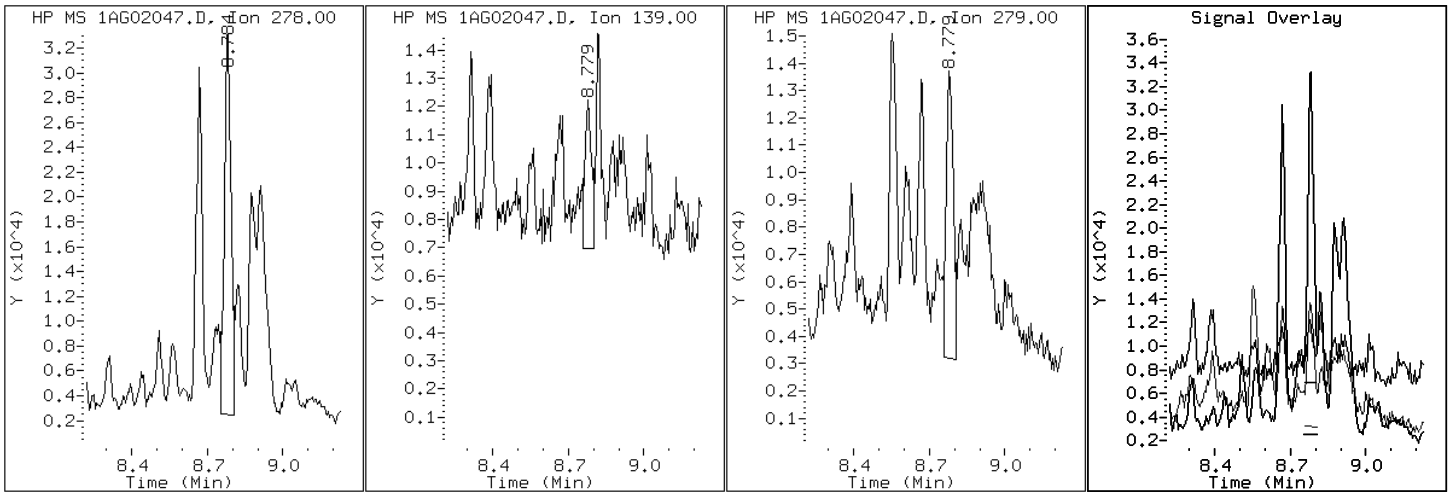
Client ID: CV1363C-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-7-a

Operator: SCC

26 Dibenzo(a,h)anthracene



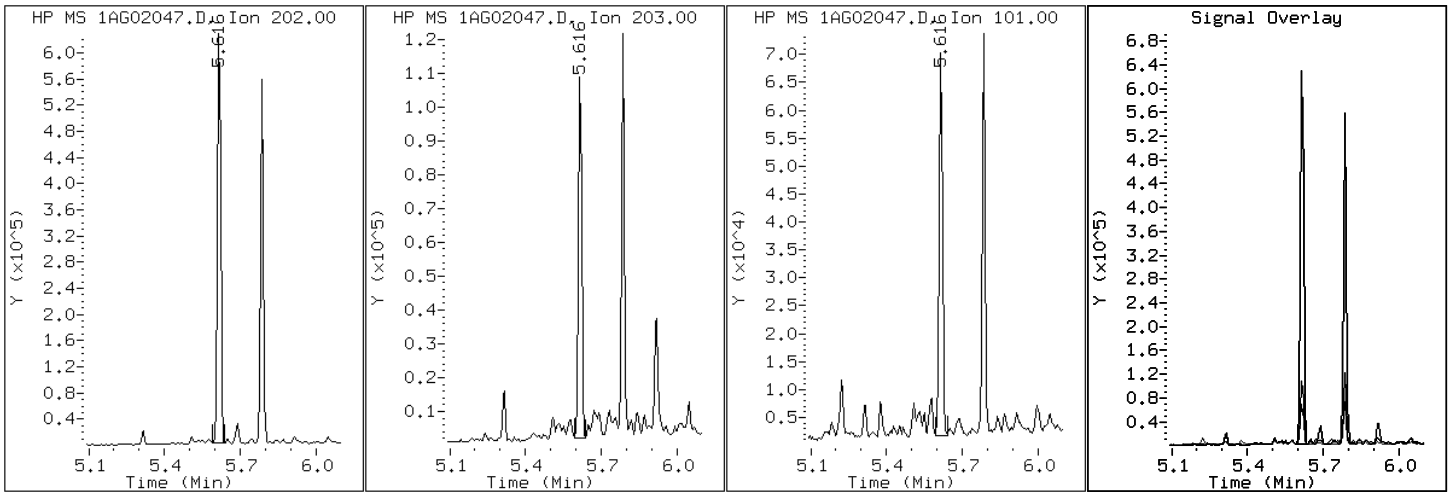
Data File: 1AG02047.D

Date: 02-JUL-2013 22:47

Client ID: CV1363C-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-7-a Operator: SCC

16 Fluoranthene



Data File: 1AG02047.D

Date: 02-JUL-2013 22:47

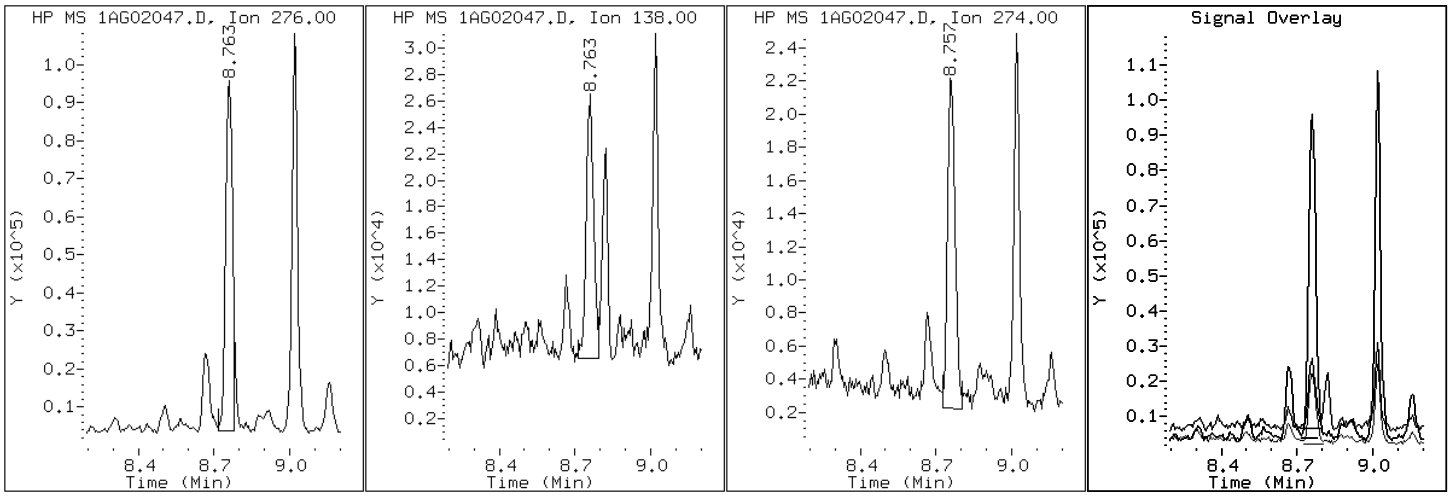
Client ID: CV1363C-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-7-a

Operator: SCC

25 Indeno(1,2,3-cd)pyrene



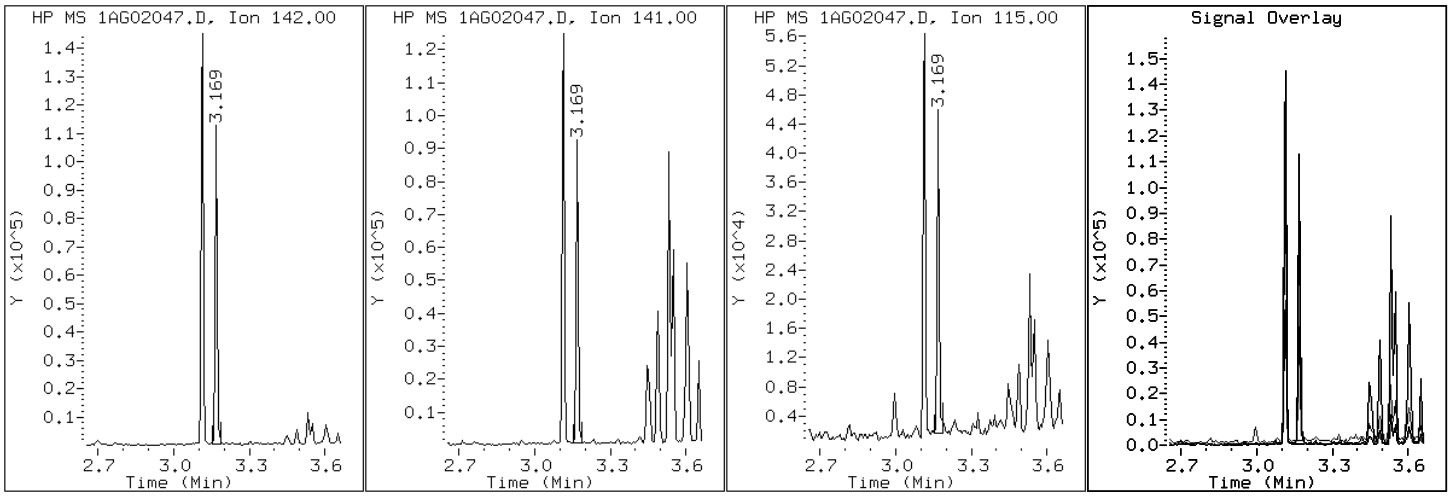
Data File: 1AG02047.D

Date: 02-JUL-2013 22:47

Client ID: CV1363C-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-7-a Operator: SCC

4 1-Methylnaphthalene



Data File: 1AG02047.D

Date: 02-JUL-2013 22:47

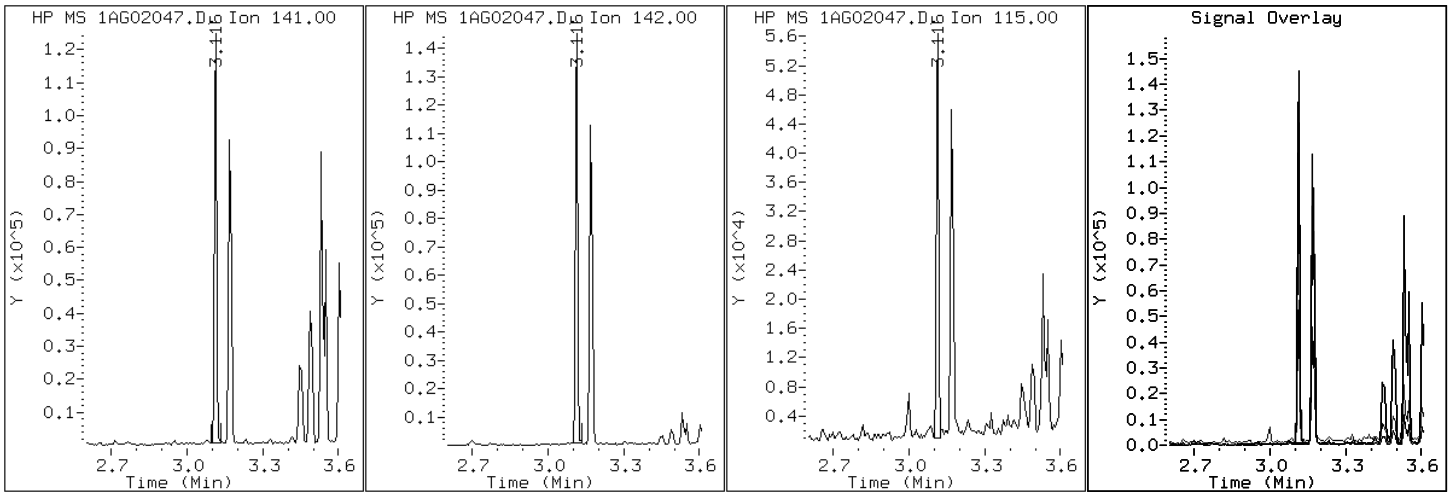
Client ID: CV1363C-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-7-a

Operator: SCC

3 2-Methylnaphthalene



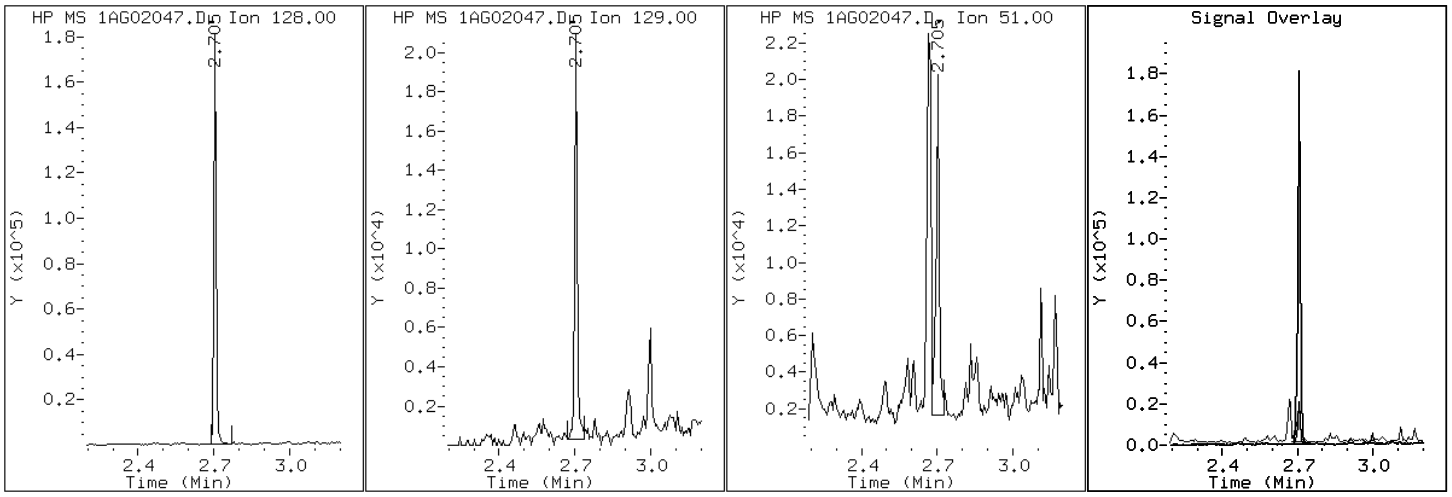
Data File: 1AG02047.D

Date: 02-JUL-2013 22:47

Client ID: CV1363C-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-7-a Operator: SCC

2 Naphthalene



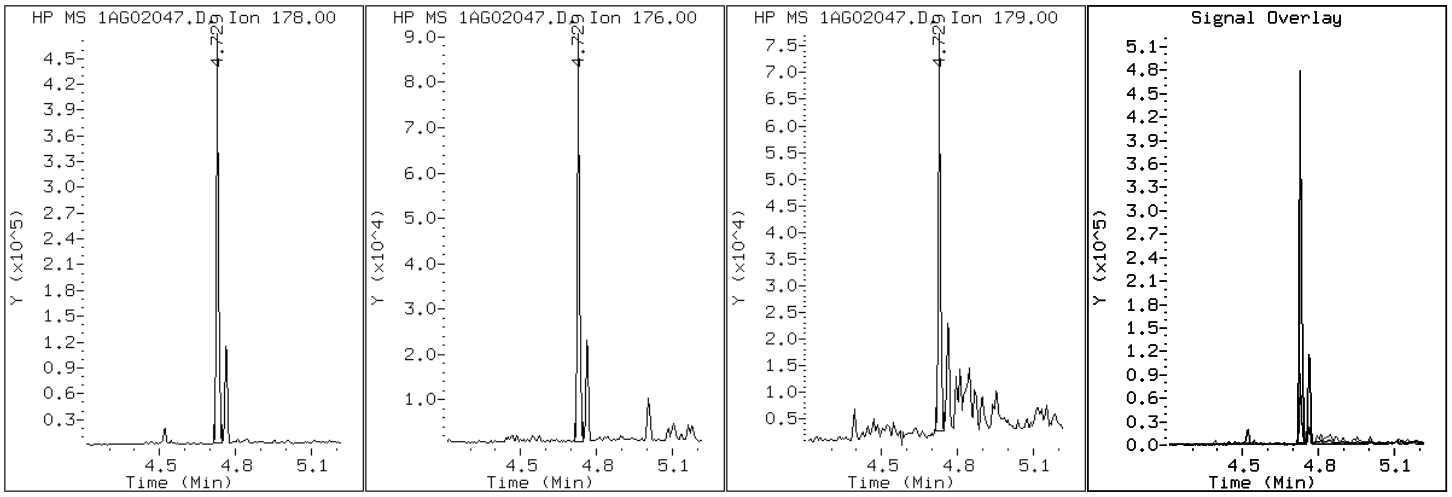
Data File: 1AG02047.D

Date: 02-JUL-2013 22:47

Client ID: CV1363C-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-7-a Operator: SCC

12 Phenanthrene



Data File: 1AG02047.D

Date: 02-JUL-2013 22:47

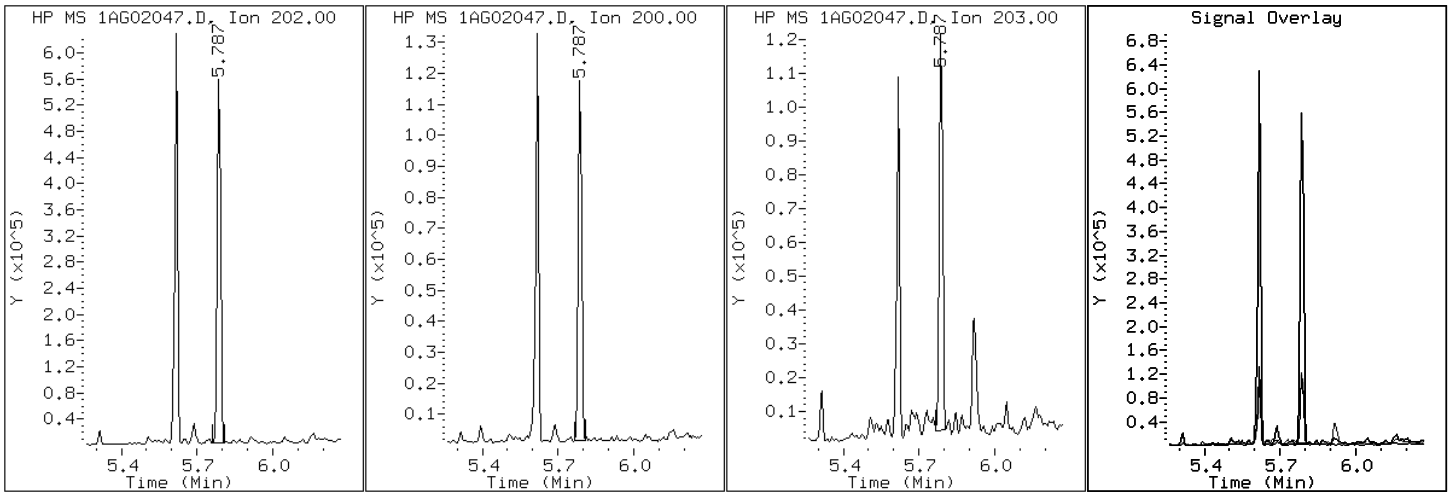
Client ID: CV1363C-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-7-a

Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG02047.D
Inj. Date and Time: 02-JUL-2013 22:47
Instrument ID: BSMA5973.i
Client ID: CV1363C-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/03/2013

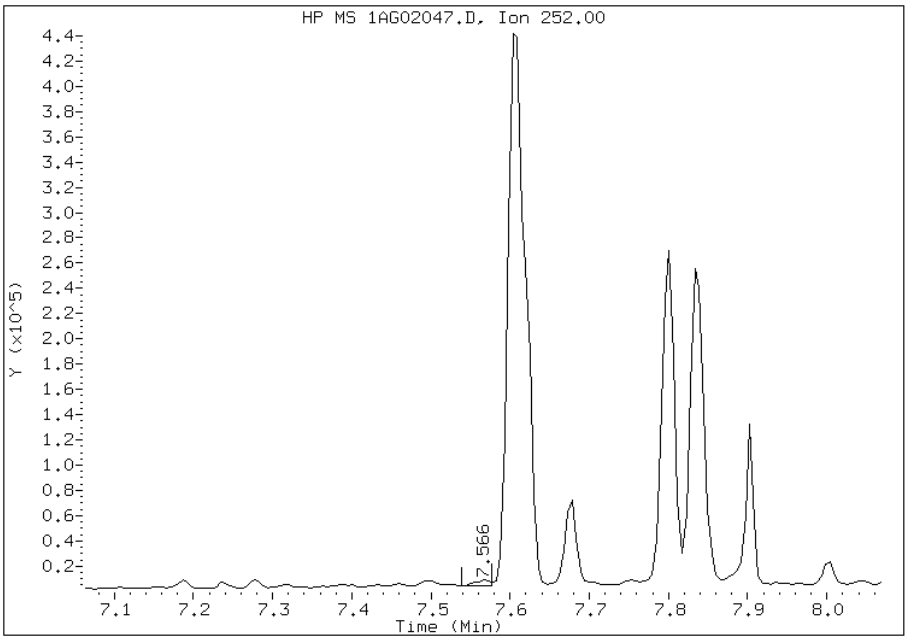
Processing Integration Results

RT: 7.57

Response: 6474

Amount: 0

Conc: 4



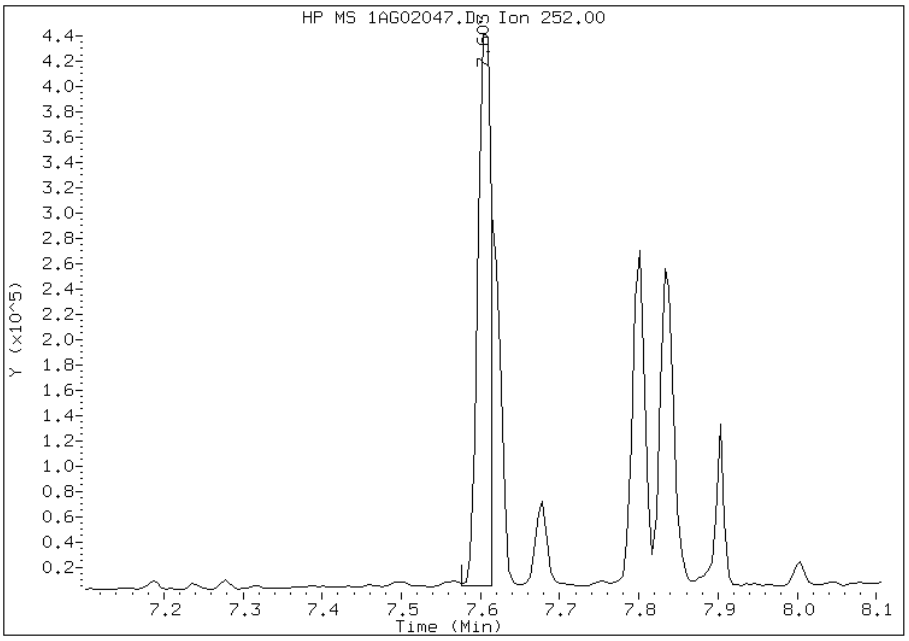
Manual Integration Results

RT: 7.60

Response: 510703

Amount: 5

Conc: 345



Manually Integrated By: cantins
Modification Date: 03-Jul-2013 16:03
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG02047.D
Inj. Date and Time: 02-JUL-2013 22:47
Instrument ID: BSMA5973.i
Client ID: CV1363C-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/03/2013

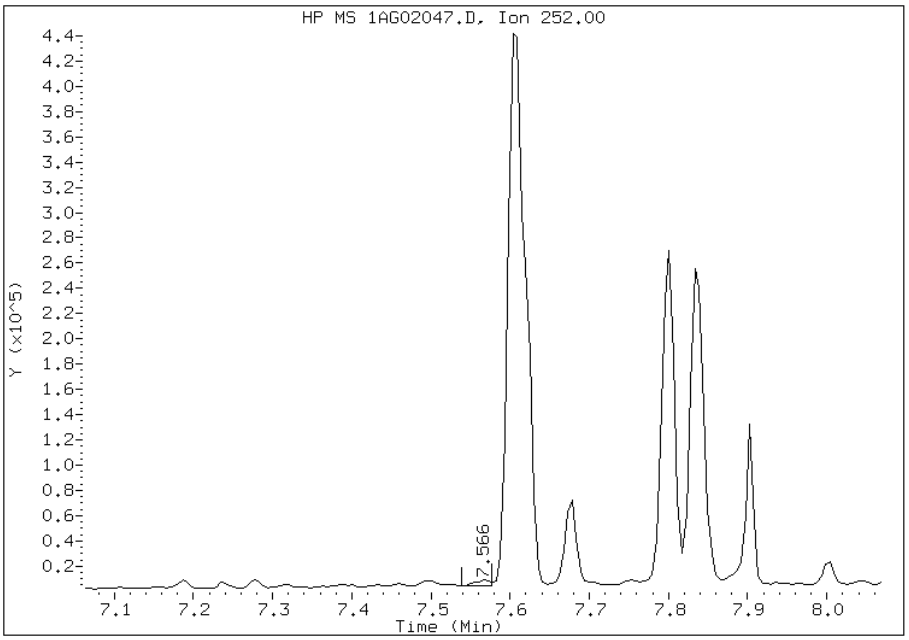
Processing Integration Results

RT: 7.57

Response: 6474

Amount: 0

Conc: 17



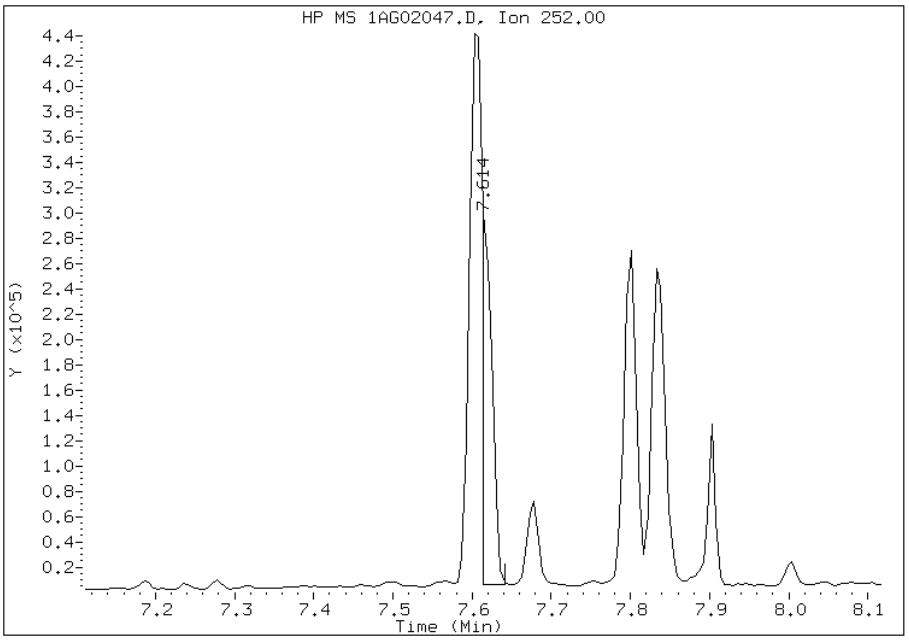
Manual Integration Results

RT: 7.61

Response: 260196

Amount: 2

Conc: 153



Manually Integrated By: cantins
Modification Date: 03-Jul-2013 16:03
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG02047.D
Inj. Date and Time: 02-JUL-2013 22:47
Instrument ID: BSMA5973.i
Client ID: CV1363C-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/03/2013

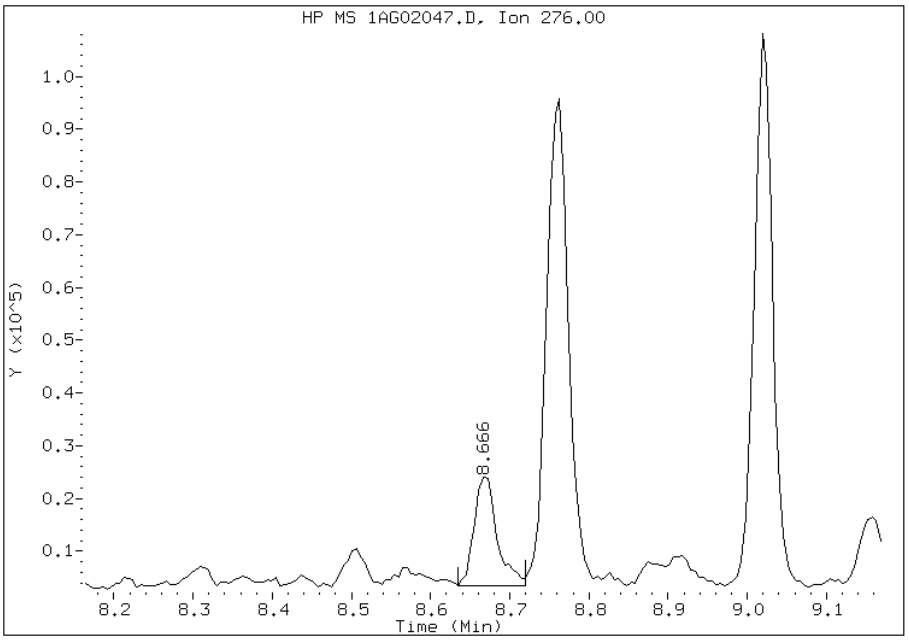
Processing Integration Results

RT: 8.67

Response: 41577

Amount: 0

Conc: 34



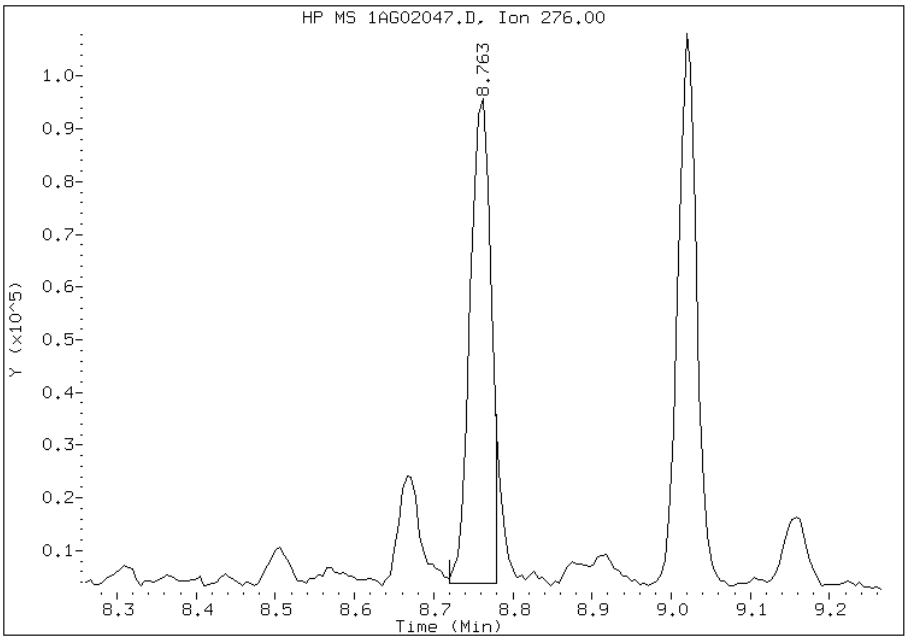
Manual Integration Results

RT: 8.76

Response: 166733

Amount: 2

Conc: 135



Manually Integrated By: cantins
Modification Date: 03-Jul-2013 16:04
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363D-CS | Lab Sample ID: 680-91719-8

Matrix: Solid | Lab File ID: 1AG03028.D

Analysis Method: 8270C LL | Date Collected: 06/24/2013 13:28

Extract. Method: 3546 | Date Extracted: 07/02/2013 07:50

Sample wt/vol: 15.06(g) | Date Analyzed: 07/03/2013 17:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 10.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139084 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	82		44	5.5
120-12-7	Anthracene	100		9.3	4.7
56-55-3	Benzo[a]anthracene	320		8.9	4.3
50-32-8	Benzo[a]pyrene	340		12	5.8
205-99-2	Benzo[b]fluoranthene	610		14	6.8
191-24-2	Benzo[g,h,i]perylene	130		22	4.9
207-08-9	Benzo[k]fluoranthene	200		8.9	4.0
218-01-9	Chrysene	410		10	5.0
53-70-3	Dibenz(a,h)anthracene	68		22	4.5
206-44-0	Fluoranthene	500		22	4.4
86-73-7	Fluorene	22	U	22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	150		22	7.9
90-12-0	1-Methylnaphthalene	110		44	4.9
91-57-6	2-Methylnaphthalene	150		44	7.9
91-20-3	Naphthalene	240		44	4.9
85-01-8	Phenanthrene	260		8.9	4.3
129-00-0	Pyrene	340		22	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	55		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03028.D
Lab Smp Id: 680-91719-A-8-A Client Smp ID: CV1363D-CS
Inj Date : 03-JUL-2013 17:40
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-A-8-A
Misc Info : 680-91719-A-8-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.060	Weight Extracted
M	10.046	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.704	2.689	(1.000)	3190183	40.0000	
* 7 Acenaphthene-d10	164	3.740	3.725	(1.000)	1805723	40.0000	
* 11 Phenanthrene-d10	188	4.728	4.703	(1.000)	2966719	40.0000	
$ 15 o-Terphenyl	230	5.017	4.996	(1.061)	330452	5.46117	403.1238
* 19 Chrysene-d12	240	6.806	6.759	(1.000)	4172612	40.0000	(H)
* 24 Perylene-d12	264	7.923	7.860	(1.000)	3532995	40.0000	(H)
2 Naphthalene	128	2.714	2.705	(1.004)	268315	3.22126	237.7822
3 2-Methylnaphthalene	141	3.120	3.105	(1.154)	117436	2.00366	147.9030
4 1-Methylnaphthalene	142	3.174	3.164	(1.174)	101742	1.45763	107.5969
6 Acenaphthylene	152	3.649	3.634	(0.976)	130594	1.10410	81.5007
12 Phenanthrene	178	4.739	4.719	(1.002)	375609	3.50340	258.6084
13 Anthracene	178	4.771	4.756	(1.009)	155790	1.41691	104.5914
16 Fluoranthene	202	5.631	5.600	(1.191)	841503	6.82021	503.4437
17 Pyrene	202	5.802	5.771	(0.852)	785679	4.67040	344.7524(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
18 Benzo(a)anthracene	228	6.796	6.743	(0.998)	626093	4.36422	322.1513(H)
20 Chrysene	228	6.817	6.781	(1.002)	762808	5.58128	411.9900(H)
21 Benzo(b)fluoranthene	252	7.635	7.577	(0.964)	927942	8.29852	612.5667(MH)
22 Benzo(k)fluoranthene	252	7.645	7.598	(0.965)	358232	2.73767	202.0851(QMH)
23 Benzo(a)pyrene	252	7.864	7.812	(0.993)	482335	4.61543	340.6944(H)
25 Indeno(1,2,3-cd)pyrene	276	8.815	8.715	(1.113)	185363	1.98697	146.6709(MH)
26 Dibenzo(a,h)anthracene	278	8.831	8.741	(1.115)	84647	0.91568	67.5924(H)
27 Benzo(g,h,i)perylene	276	9.082	8.966	(1.146)	181563	1.82771	134.9148(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG03028.D

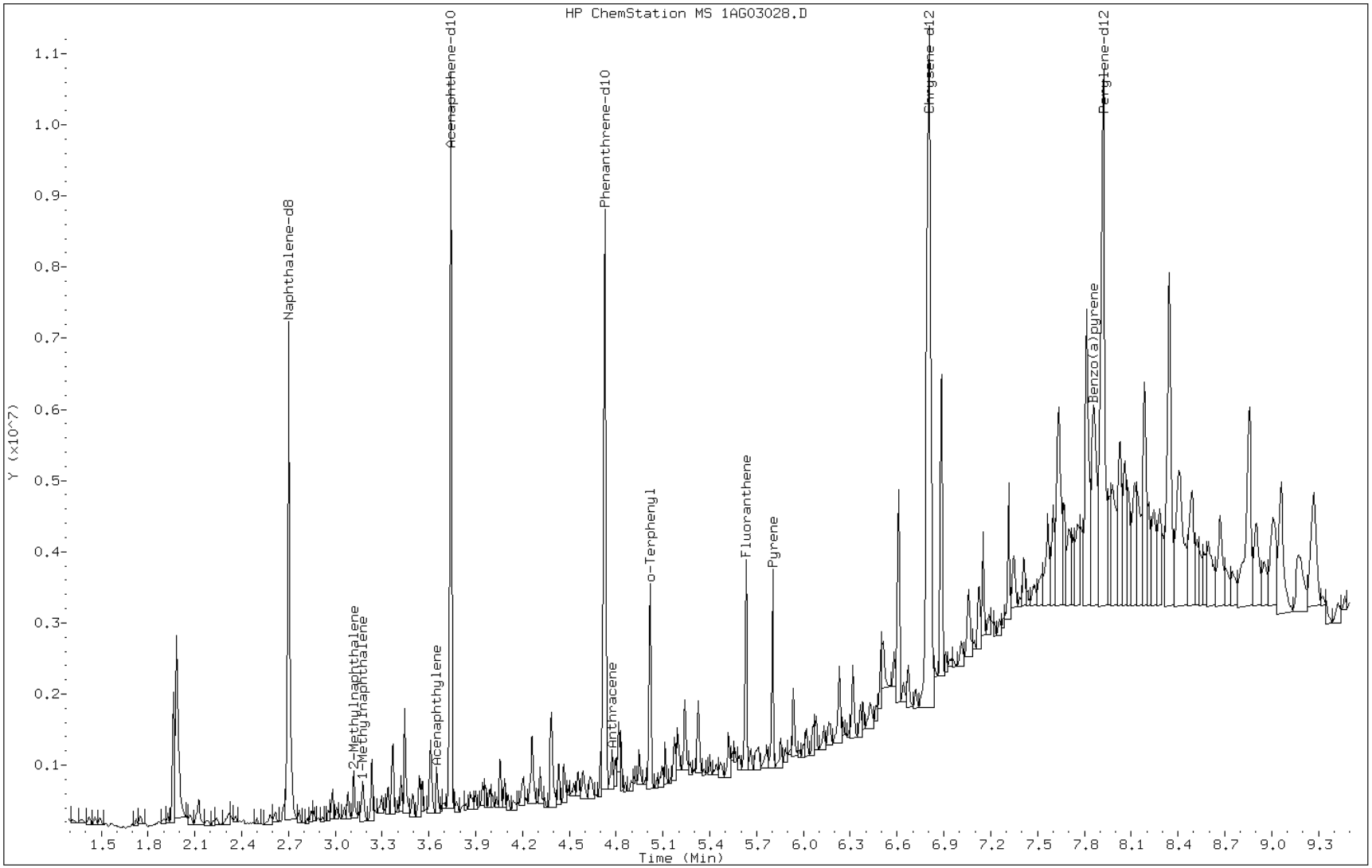
Date: 03-JUL-2013 17:40

Client ID: CV1363D-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-8-A

Operator: SCC



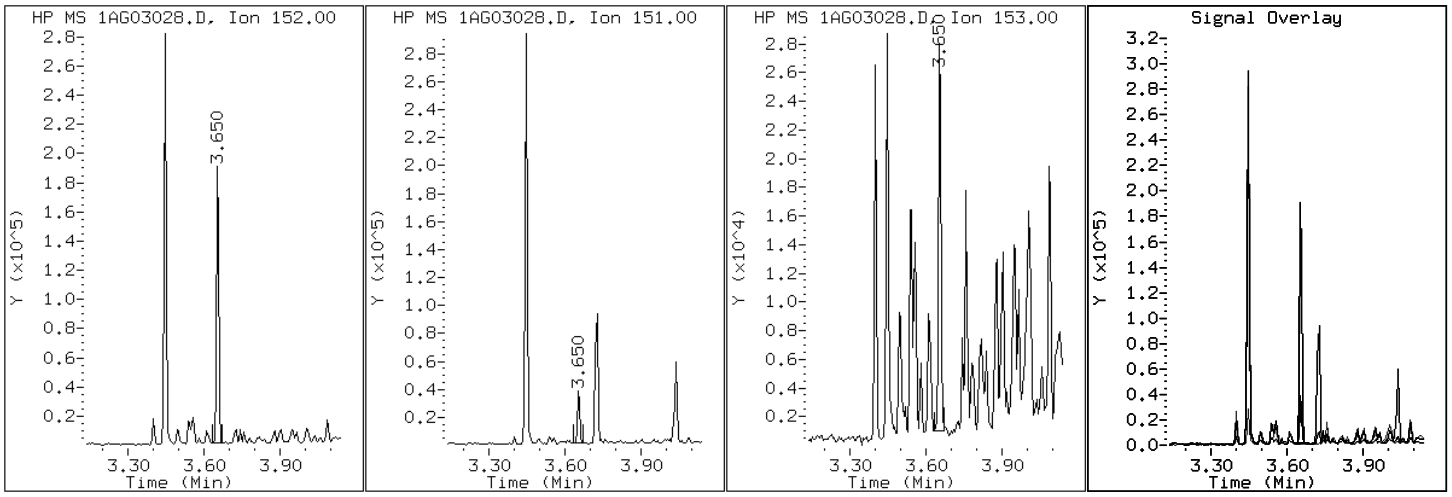
Data File: 1AG03028.D

Date: 03-JUL-2013 17:40

Client ID: CV1363D-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-8-A Operator: SCC

6 Acenaphthylene



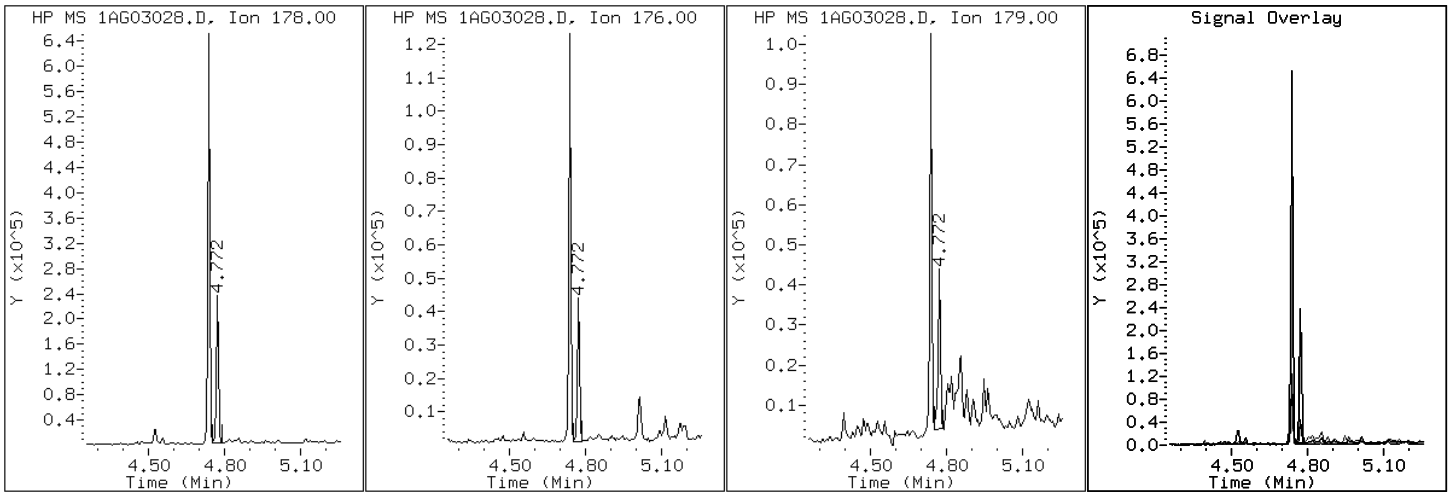
Data File: 1AG03028.D

Date: 03-JUL-2013 17:40

Client ID: CV1363D-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-8-A Operator: SCC

13 Anthracene



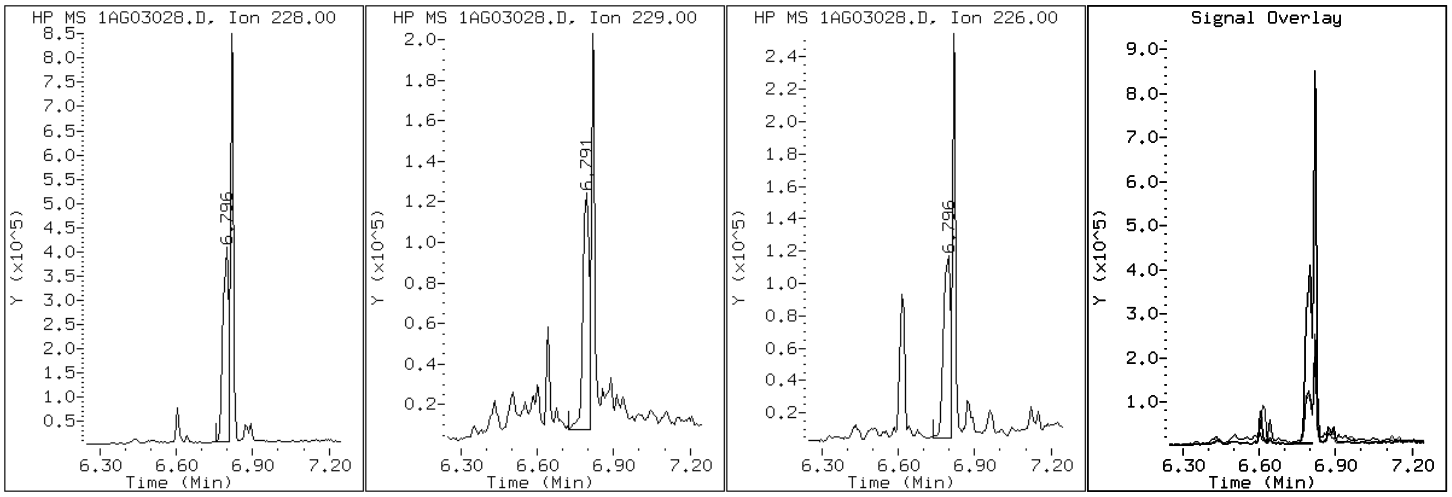
Data File: 1AG03028.D

Date: 03-JUL-2013 17:40

Client ID: CV1363D-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-8-A Operator: SCC

18 Benzo(a)anthracene



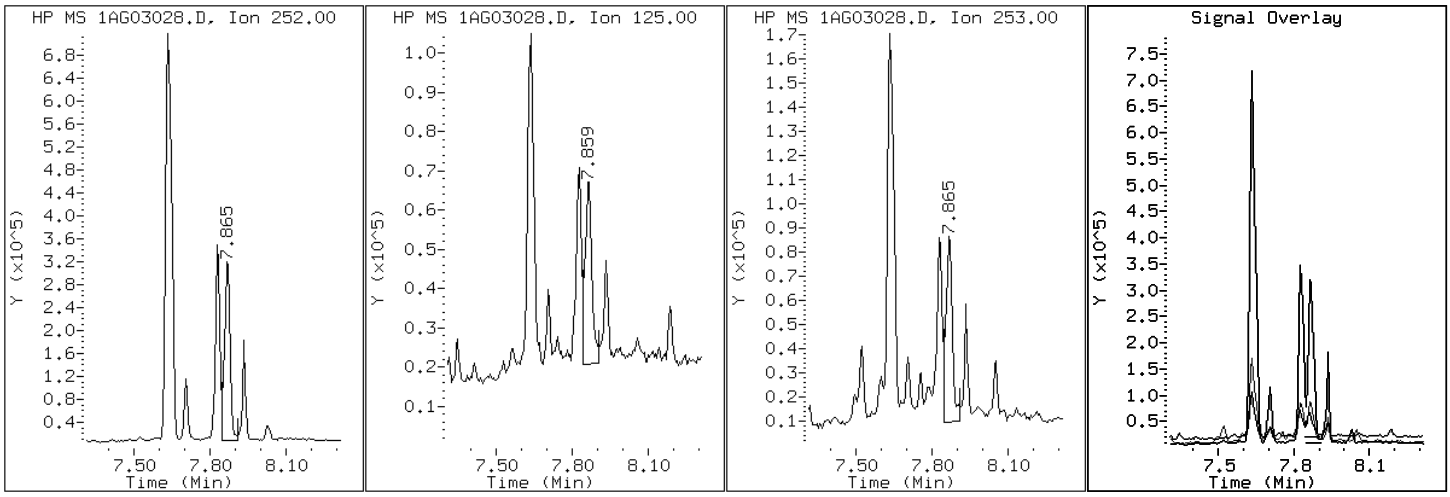
Data File: 1AG03028.D

Date: 03-JUL-2013 17:40

Client ID: CV1363D-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-8-A Operator: SCC

23 Benzo(a)pyrene



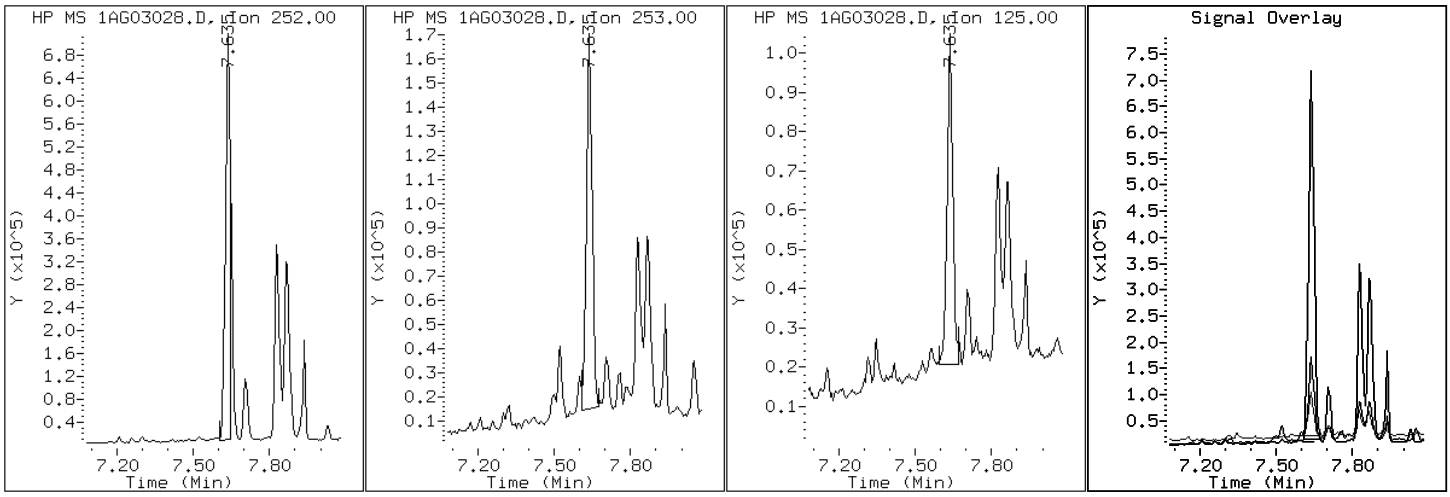
Data File: 1AG03028.D

Date: 03-JUL-2013 17:40

Client ID: CV1363D-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-8-A Operator: SCC

21 Benzo(b)fluoranthene



Data File: 1AG03028.D

Date: 03-JUL-2013 17:40

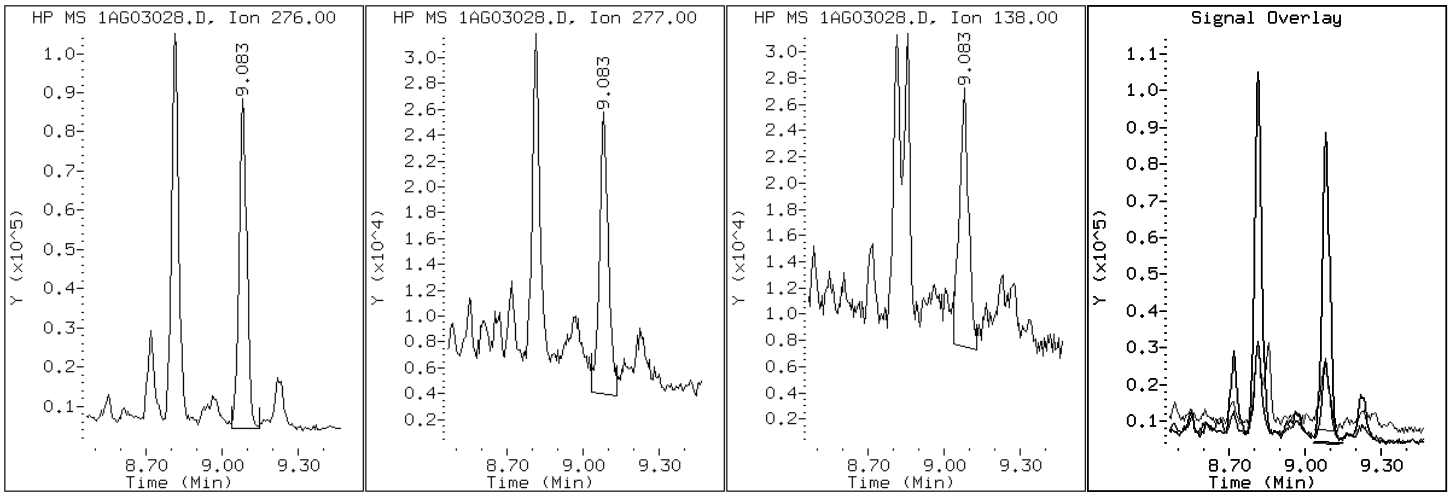
Client ID: CV1363D-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-8-A

Operator: SCC

27 Benzo(g,h,i)perylene



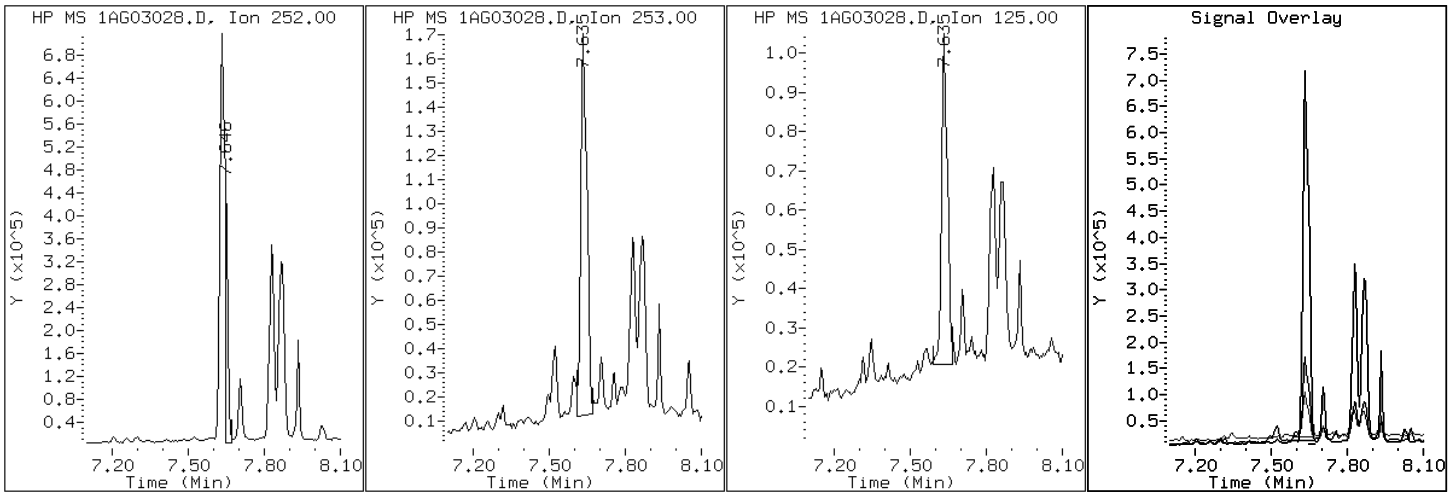
Data File: 1AG03028.D

Date: 03-JUL-2013 17:40

Client ID: CV1363D-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-8-A Operator: SCC

22 Benzo(k)fluoranthene



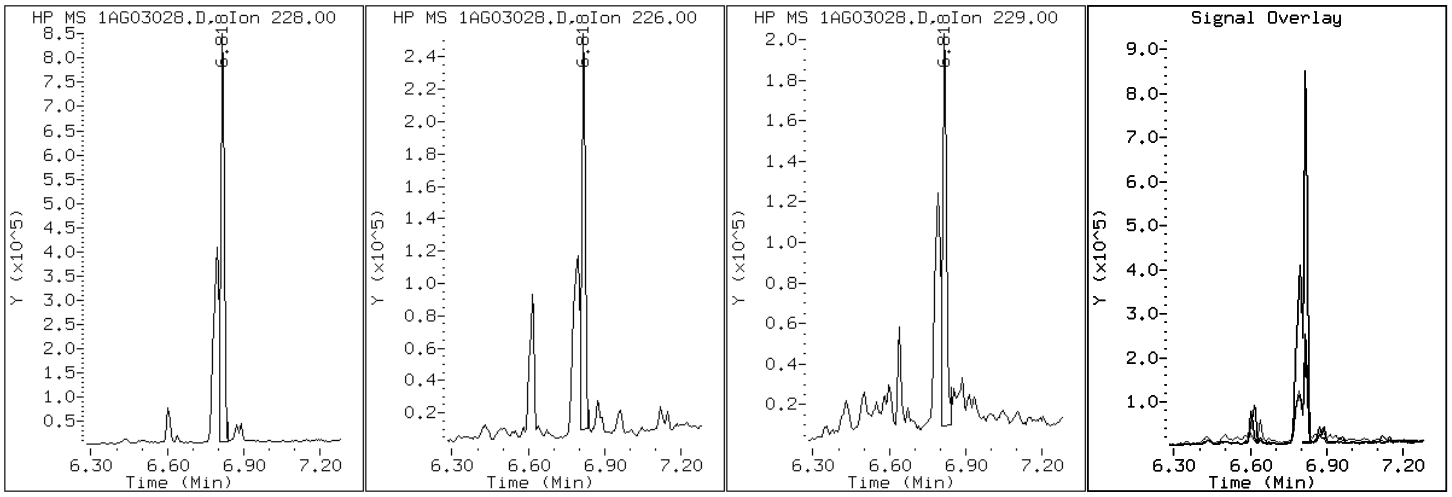
Data File: 1AG03028.D

Date: 03-JUL-2013 17:40

Client ID: CV1363D-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-8-A Operator: SCC

20 Chrysene



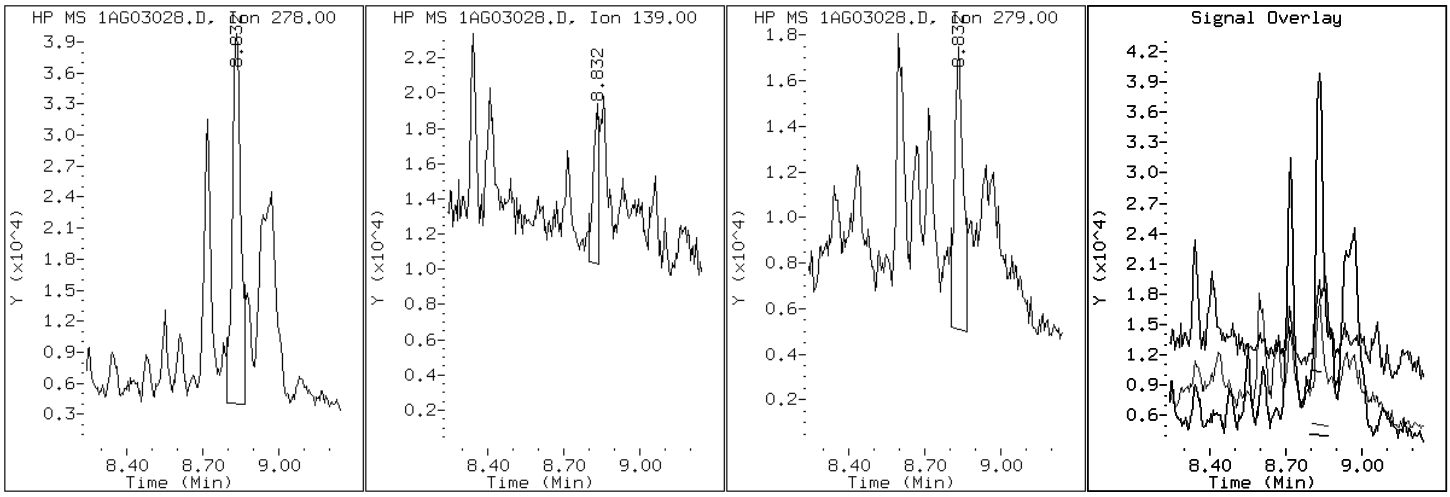
Data File: 1AG03028.D

Date: 03-JUL-2013 17:40

Client ID: CV1363D-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-8-A Operator: SCC

26 Dibenzo(a,h)anthracene



Data File: 1AG03028.D

Date: 03-JUL-2013 17:40

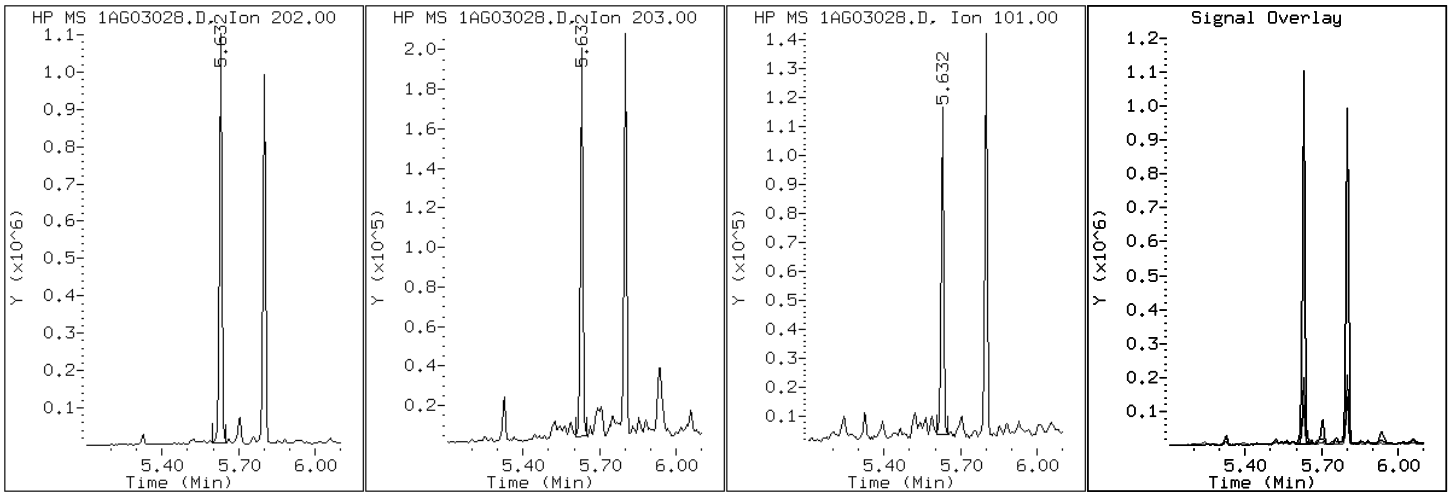
Client ID: CV1363D-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-8-A

Operator: SCC

16 Fluoranthene



Data File: 1AG03028.D

Date: 03-JUL-2013 17:40

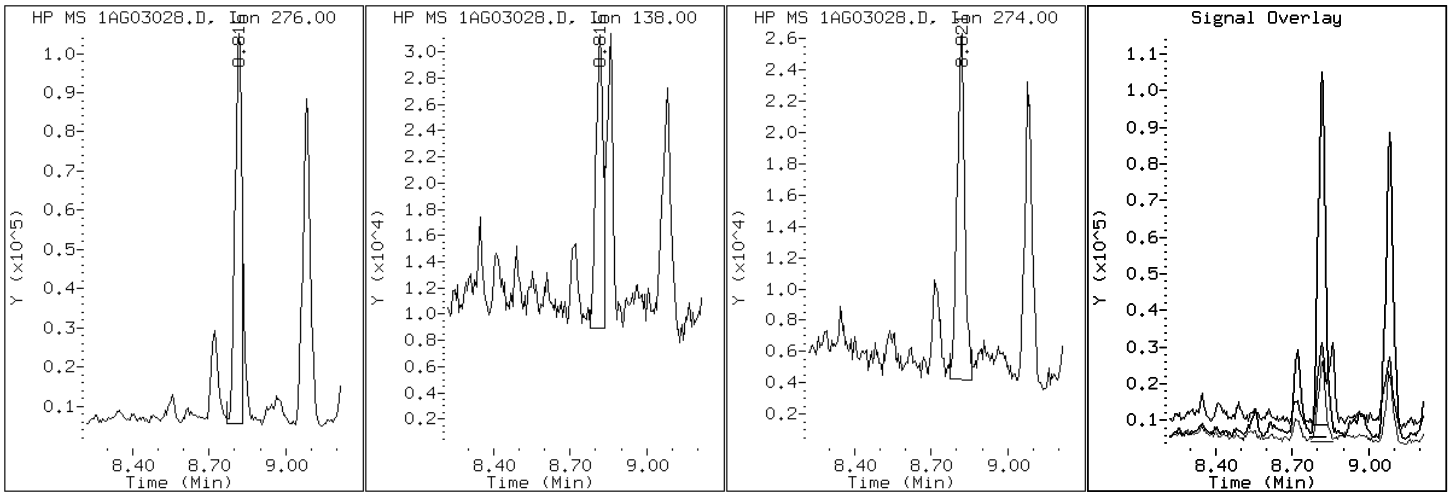
Client ID: CV1363D-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-8-A

Operator: SCC

25 Indeno(1,2,3-cd)pyrene



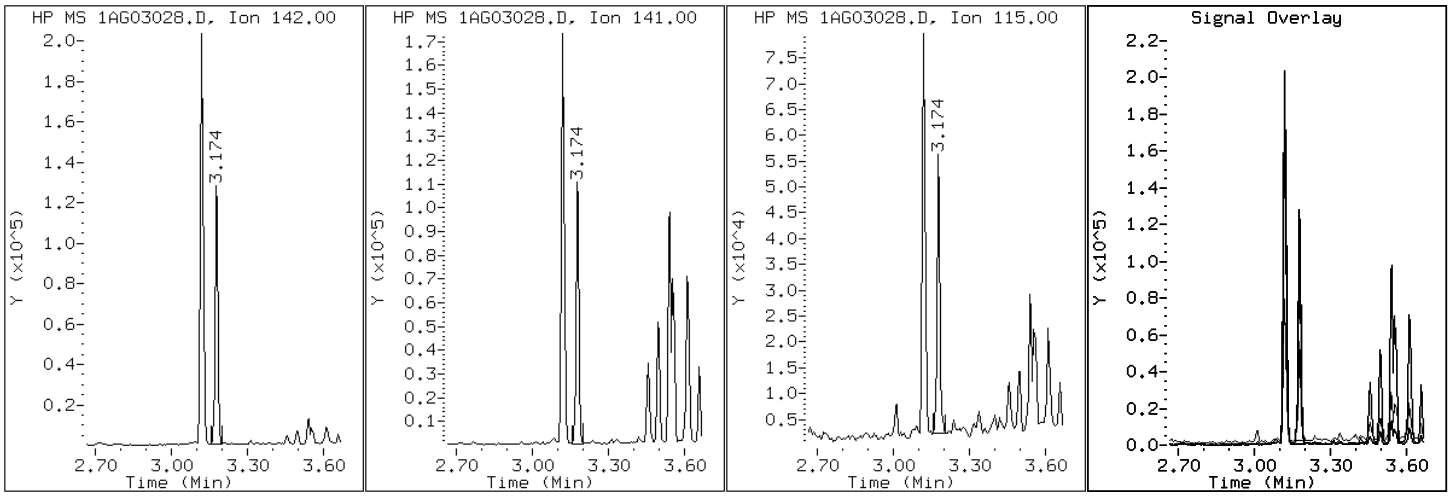
Data File: 1AG03028.D

Date: 03-JUL-2013 17:40

Client ID: CV1363D-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-8-A Operator: SCC

4 1-Methylnaphthalene



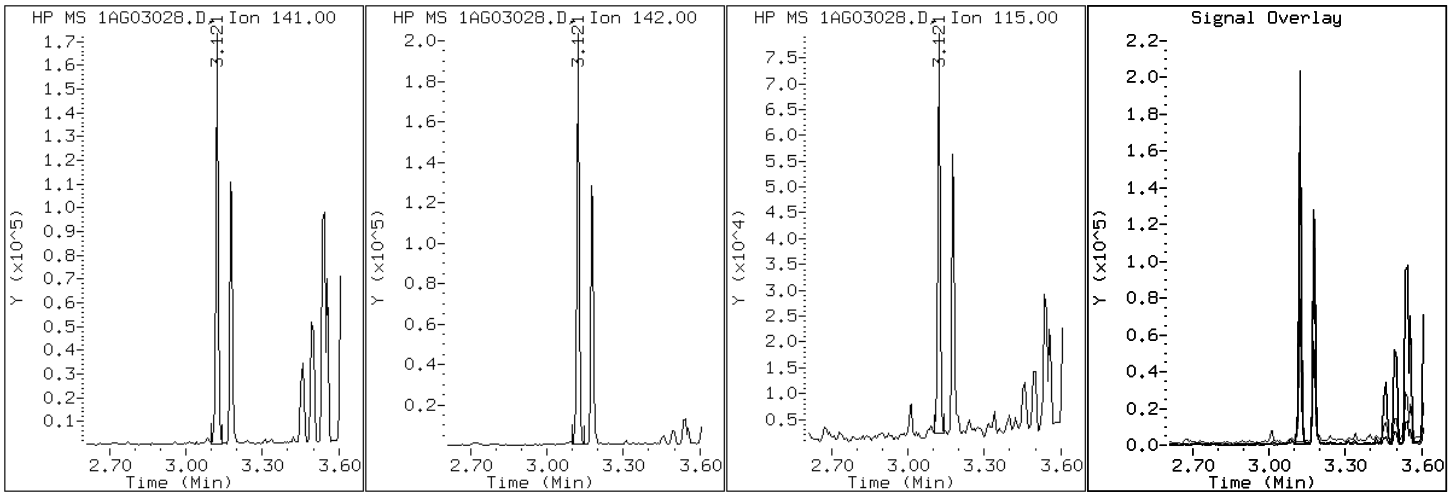
Data File: 1AG03028.D

Date: 03-JUL-2013 17:40

Client ID: CV1363D-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-8-A Operator: SCC

3 2-Methylnaphthalene



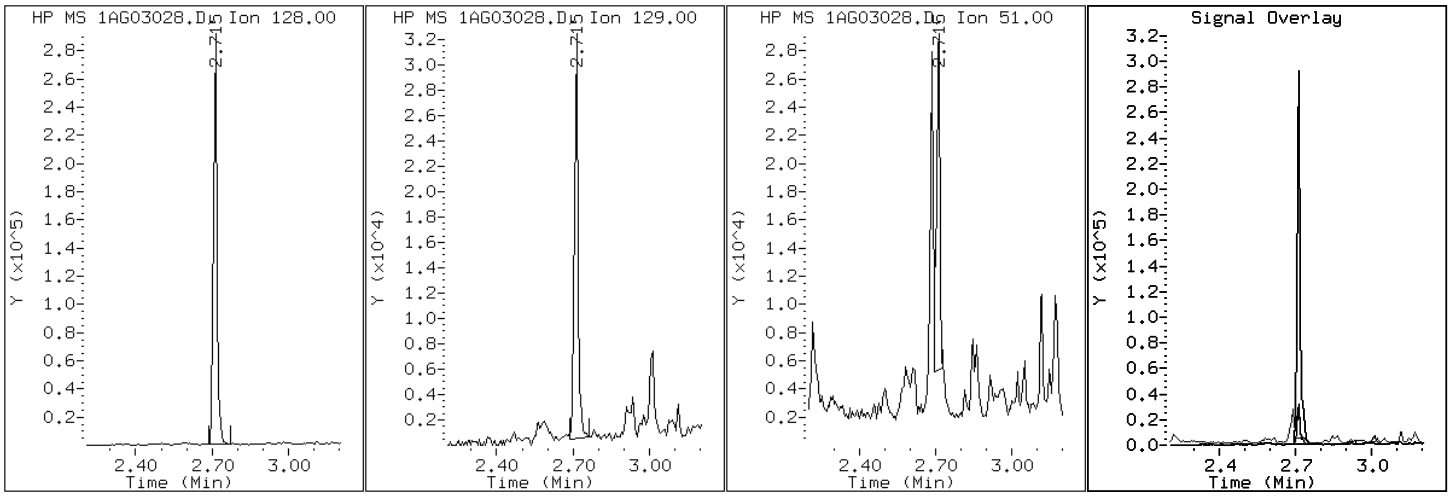
Data File: 1AG03028.D

Date: 03-JUL-2013 17:40

Client ID: CV1363D-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-8-A Operator: SCC

2 Naphthalene



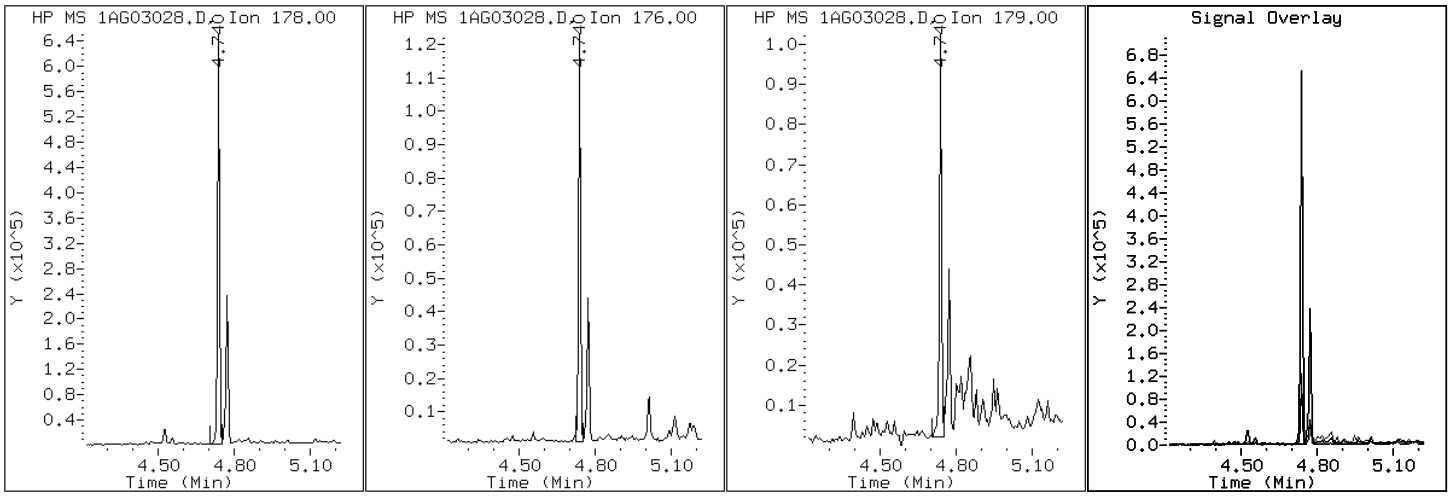
Data File: 1AG03028.D

Date: 03-JUL-2013 17:40

Client ID: CV1363D-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-8-A Operator: SCC

12 Phenanthrene



Data File: 1AG03028.D

Date: 03-JUL-2013 17:40

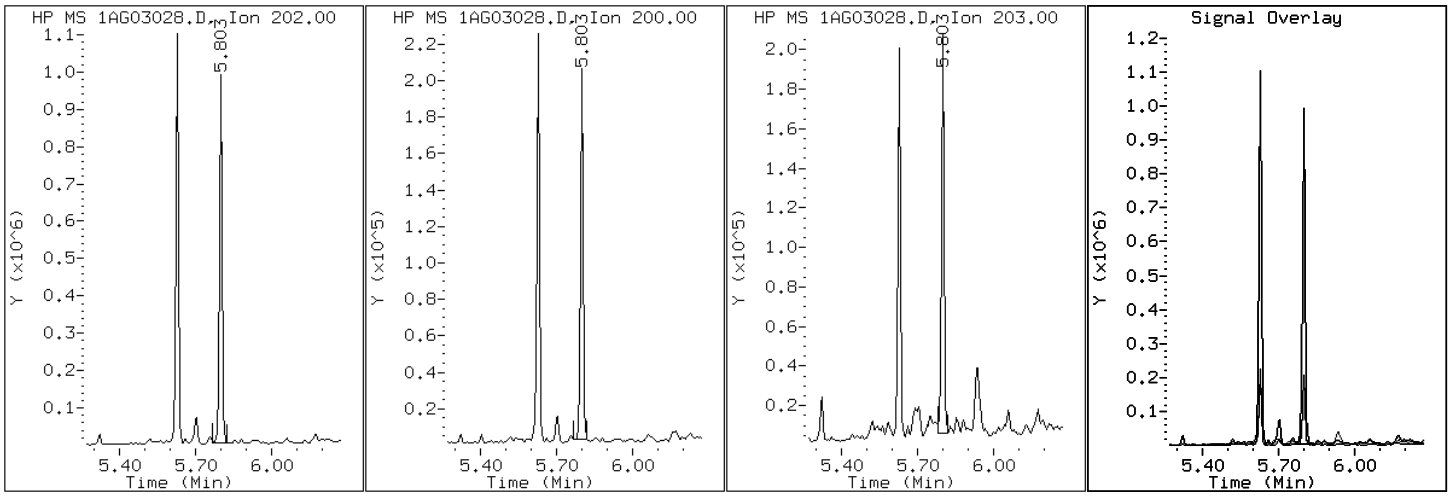
Client ID: CV1363D-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-8-A

Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG03028.D
Inj. Date and Time: 03-JUL-2013 17:40
Instrument ID: BSMA5973.i
Client ID: CV1363D-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/08/2013

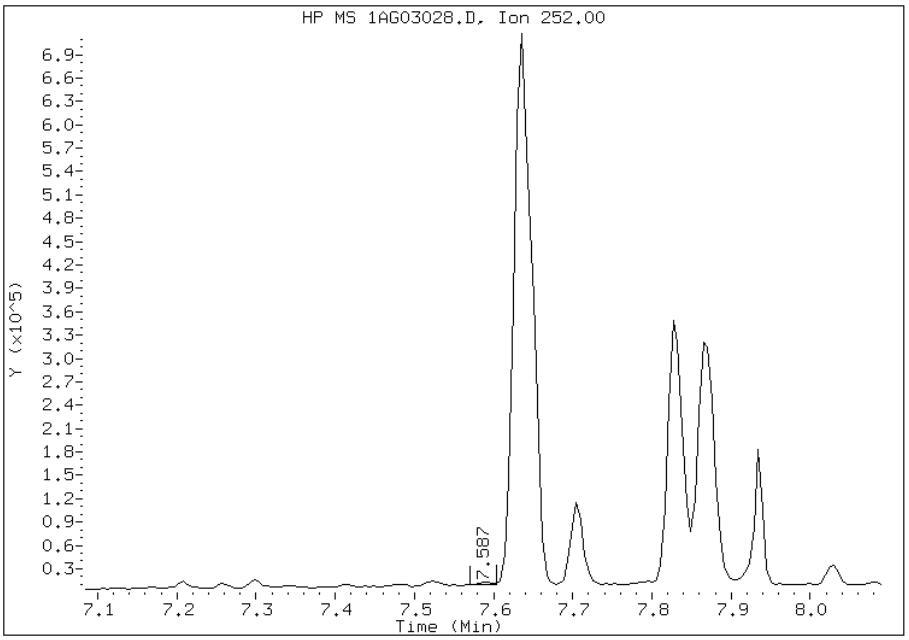
Processing Integration Results

RT: 7.59

Response: 3377

Amount: 0

Conc: 2



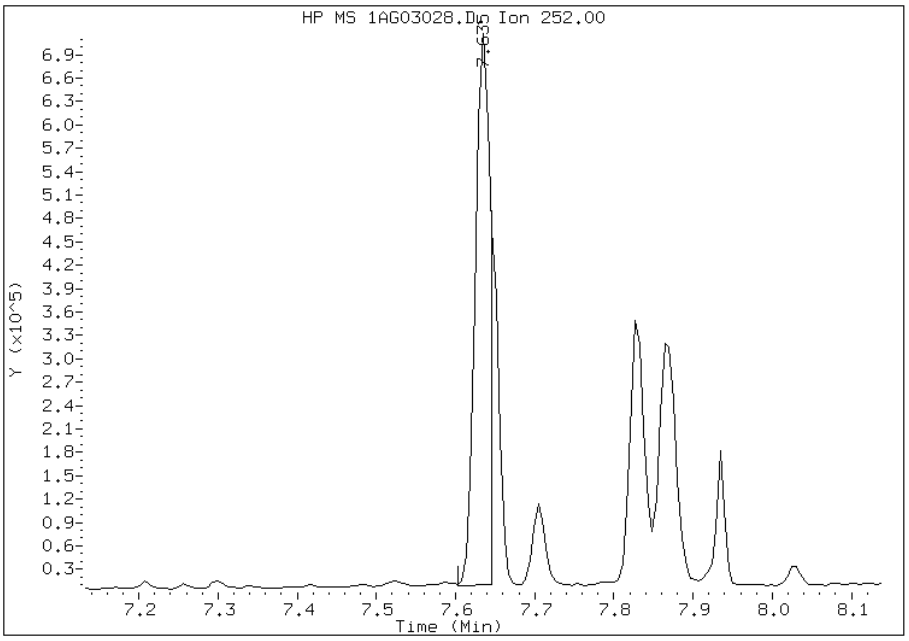
Manual Integration Results

RT: 7.64

Response: 927942

Amount: 8

Conc: 613



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:40
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG03028.D
Inj. Date and Time: 03-JUL-2013 17:40
Instrument ID: BSMA5973.i
Client ID: CV1363D-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/08/2013

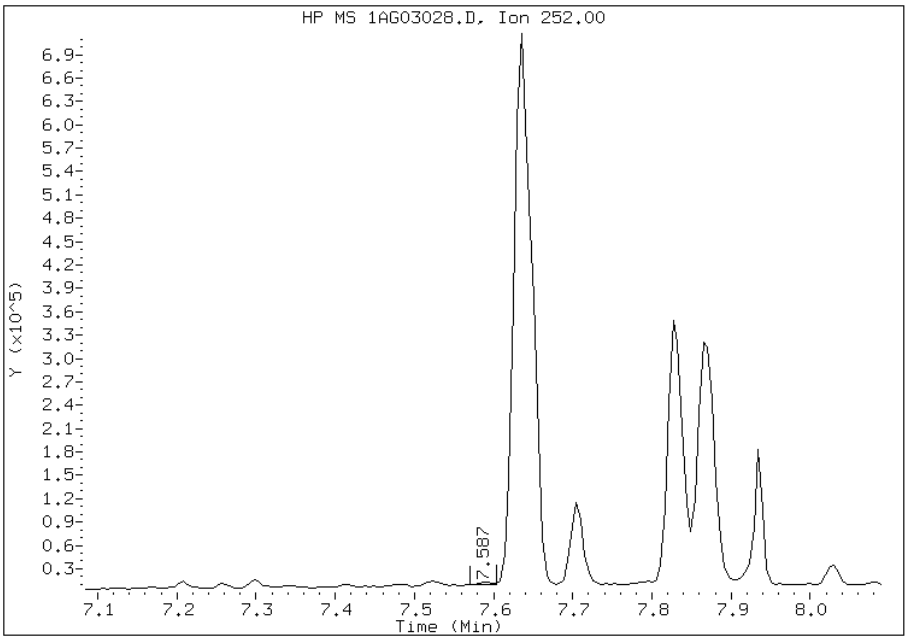
Processing Integration Results

RT: 7.59

Response: 5067

Amount: 0

Conc: 16



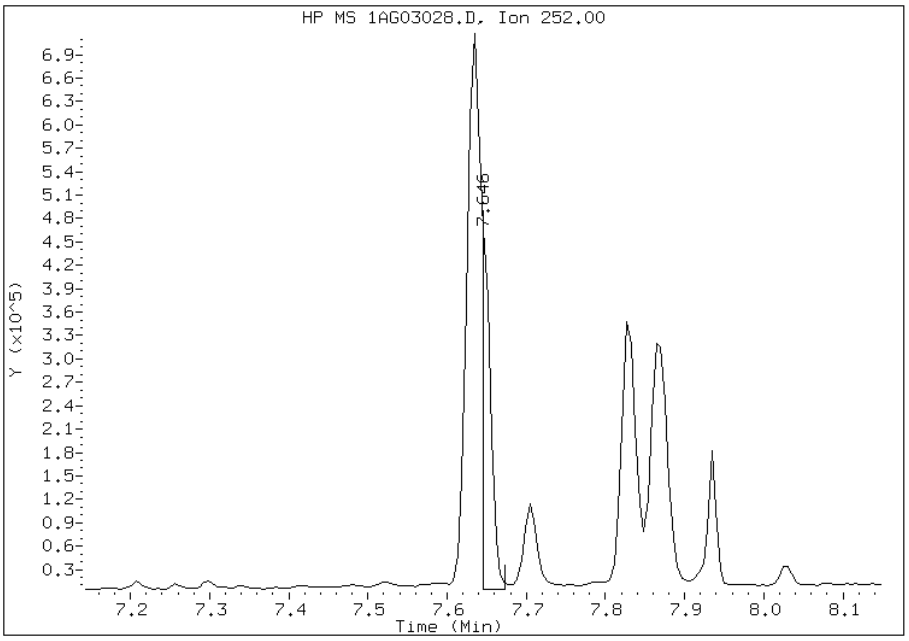
Manual Integration Results

RT: 7.65

Response: 358232

Amount: 3

Conc: 202



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:41
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG03028.D
Inj. Date and Time: 03-JUL-2013 17:40
Instrument ID: BSMA5973.i
Client ID: CV1363D-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

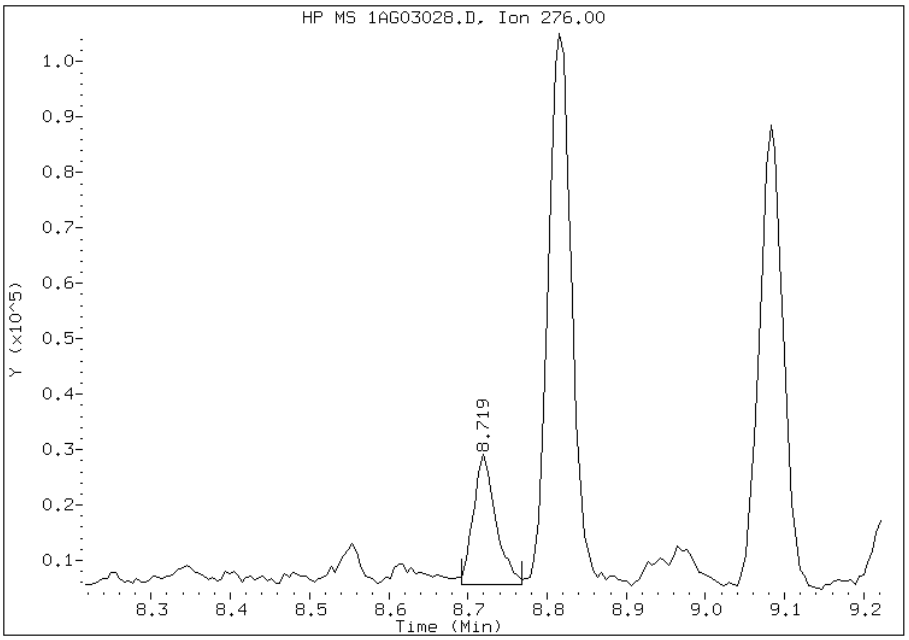
Processing Integration Results

RT: 8.72

Response: 45257

Amount: 0

Conc: 36



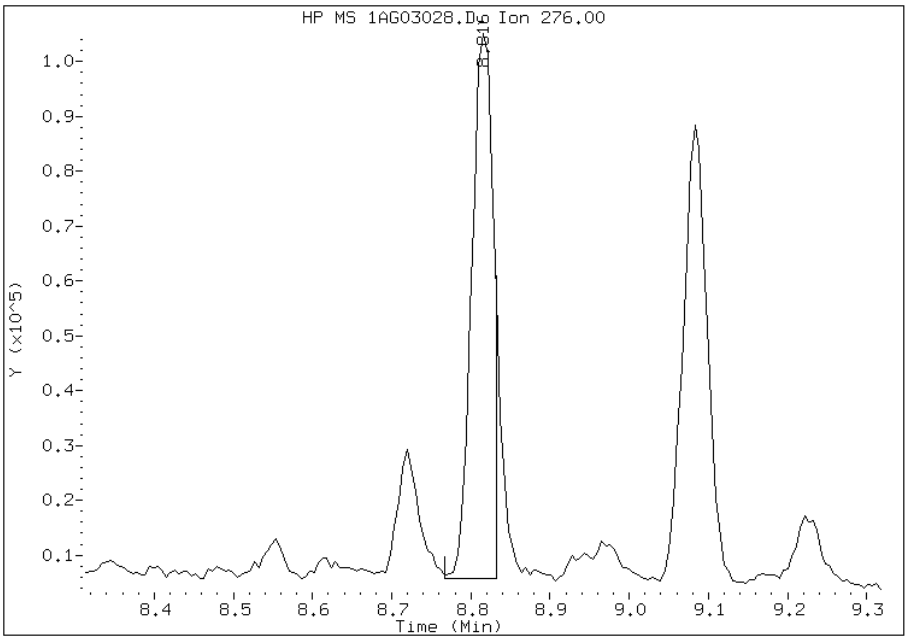
Manual Integration Results

RT: 8.82

Response: 185363

Amount: 2

Conc: 147



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:41
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363E-CS | Lab Sample ID: 680-91719-9

Matrix: Solid | Lab File ID: 1AG03029.D

Analysis Method: 8270C LL | Date Collected: 06/24/2013 13:56

Extract. Method: 3546 | Date Extracted: 07/02/2013 07:50

Sample wt/vol: 14.99(g) | Date Analyzed: 07/03/2013 17:55

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139084 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	53		46	5.8
120-12-7	Anthracene	87		9.7	4.9
56-55-3	Benzo[a]anthracene	240		9.2	4.5
50-32-8	Benzo[a]pyrene	240		12	6.0
205-99-2	Benzo[b]fluoranthene	450		14	7.0
191-24-2	Benzo[g,h,i]perylene	100		23	5.1
207-08-9	Benzo[k]fluoranthene	130		9.2	4.2
218-01-9	Chrysene	280		10	5.2
53-70-3	Dibenz(a,h)anthracene	57		23	4.7
206-44-0	Fluoranthene	390		23	4.6
86-73-7	Fluorene	23	U	23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	100		23	8.2
90-12-0	1-Methylnaphthalene	76		46	5.1
91-57-6	2-Methylnaphthalene	94		46	8.2
91-20-3	Naphthalene	97		46	5.1
85-01-8	Phenanthrene	230		9.2	4.5
129-00-0	Pyrene	260		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	47		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03029.D
Lab Smp Id: 680-91719-A-9-A Client Smp ID: CV1363E-CS
Inj Date : 03-JUL-2013 17:55
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-A-9-A
Misc Info : 680-91719-A-9-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	13.347	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.705	2.689	(1.000)	2961104	40.0000	
* 7 Acenaphthene-d10	164	3.741	3.725	(1.000)	1763671	40.0000	
* 11 Phenanthrene-d10	188	4.729	4.703	(1.000)	2958234	40.0000	
$ 15 o-Terphenyl	230	5.018	4.996	(1.061)	287544	4.69793	361.6795
* 19 Chrysene-d12	240	6.807	6.759	(1.000)	4144122	40.0000	(H)
* 24 Perylene-d12	264	7.924	7.860	(1.000)	3477782	40.0000	(H)
2 Naphthalene	128	2.715	2.705	(1.004)	97898	1.26624	97.4842
3 2-Methylnaphthalene	141	3.121	3.105	(1.154)	65065	1.22347	94.1915
4 1-Methylnaphthalene	142	3.180	3.164	(1.176)	62717	0.98953	76.1807
6 Acenaphthylene	152	3.655	3.634	(0.977)	66925	0.68196	52.5020
12 Phenanthrene	178	4.740	4.719	(1.002)	325667	3.03260	233.4707
13 Anthracene	178	4.777	4.756	(1.010)	120009	1.13311	87.2343
16 Fluoranthene	202	5.632	5.600	(1.191)	636823	5.05719	389.3377
17 Pyrene	202	5.803	5.771	(0.852)	569518	3.40873	262.4274(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
18 Benzo(a)anthracene	228	6.797	6.743	(0.998)	439512	3.05641	235.3035(H)
20 Chrysene	228	6.818	6.781	(1.002)	501438	3.69412	284.3992(H)
21 Benzo(b)fluoranthene	252	7.635	7.577	(0.964)	636953	5.78666	445.4970(MH)
22 Benzo(k)fluoranthene	252	7.646	7.598	(0.965)	211732	1.68939	130.0608(QMH)
23 Benzo(a)pyrene	252	7.865	7.812	(0.993)	318271	3.09386	238.1870(H)
25 Indeno(1,2,3-cd)pyrene	276	8.816	8.715	(1.113)	122323	1.33204	102.5496(MH)
26 Dibenzo(a,h)anthracene	278	8.837	8.741	(1.115)	67646	0.74339	57.2312(H)
27 Benzo(g,h,i)perylene	276	9.083	8.966	(1.146)	131715	1.34696	103.6984(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG03029.D

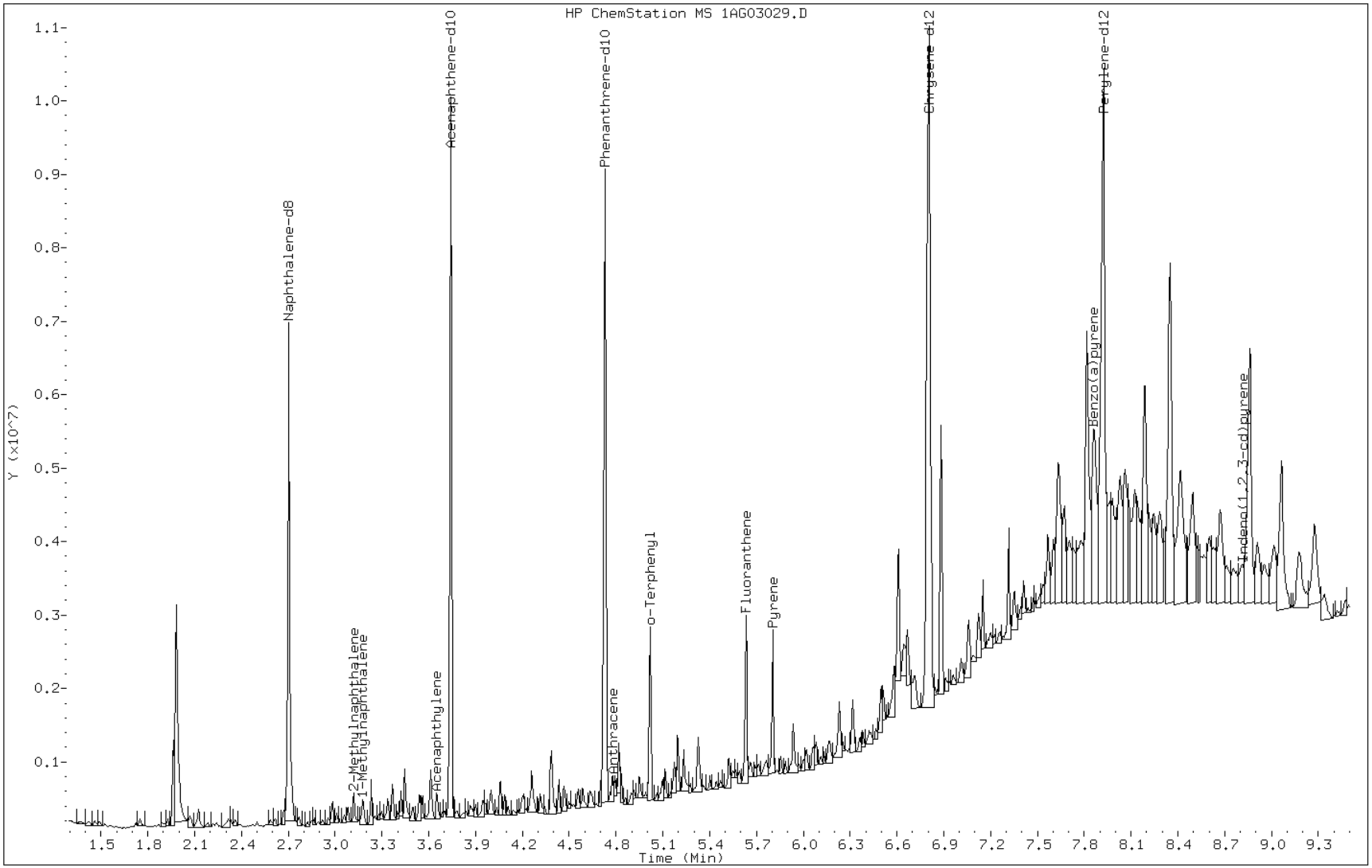
Date: 03-JUL-2013 17:55

Client ID: CV1363E-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-9-A

Operator: SCC



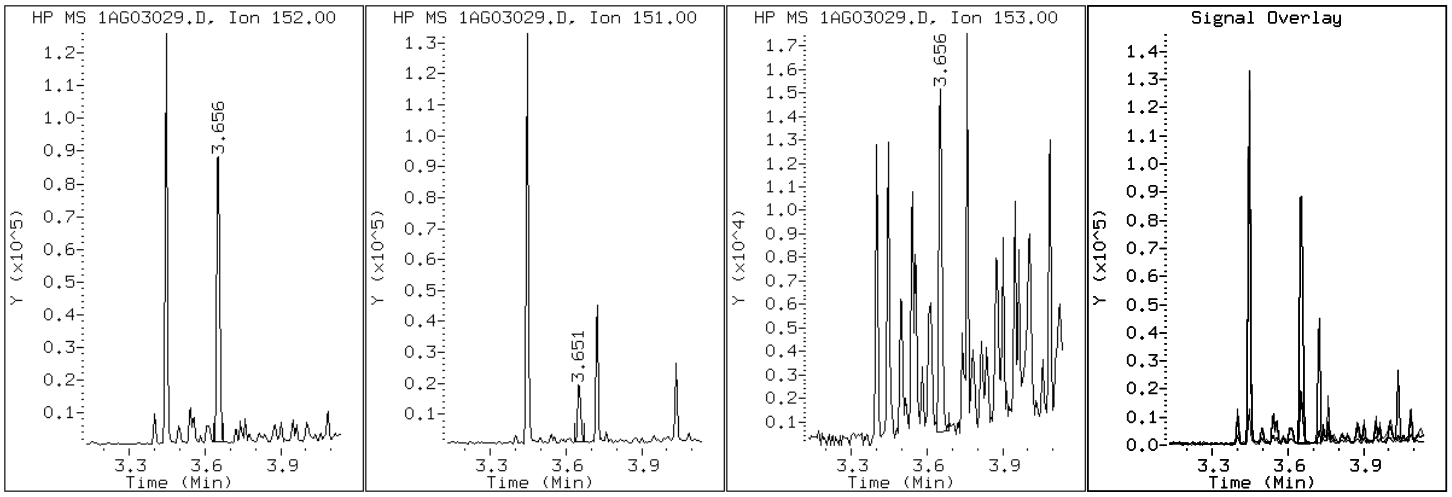
Data File: 1AG03029.D

Date: 03-JUL-2013 17:55

Client ID: CV1363E-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-9-A Operator: SCC

6 Acenaphthylene



Data File: 1AG03029.D

Date: 03-JUL-2013 17:55

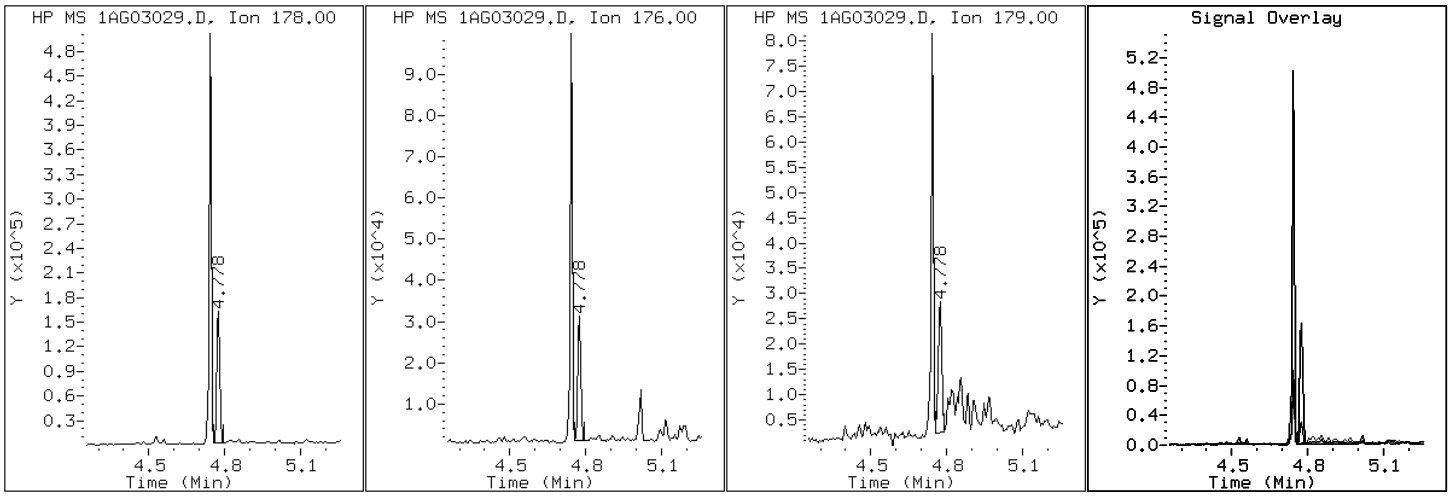
Client ID: CV1363E-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-9-A

Operator: SCC

13 Anthracene



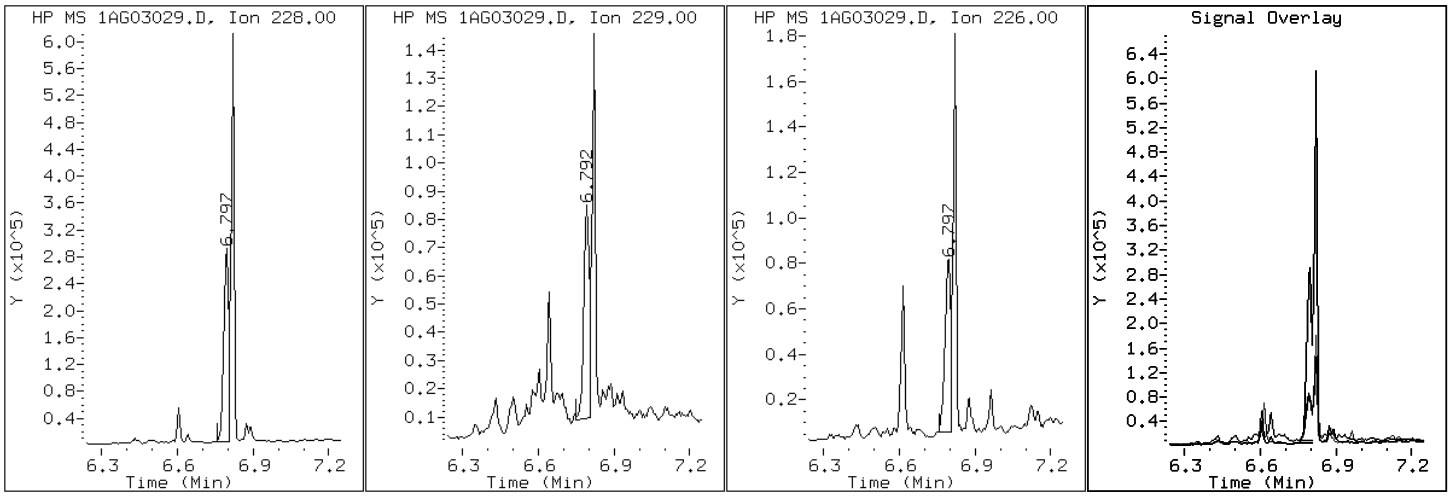
Data File: 1AG03029.D

Date: 03-JUL-2013 17:55

Client ID: CV1363E-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-9-A Operator: SCC

18 Benzo(a)anthracene



Data File: 1AG03029.D

Date: 03-JUL-2013 17:55

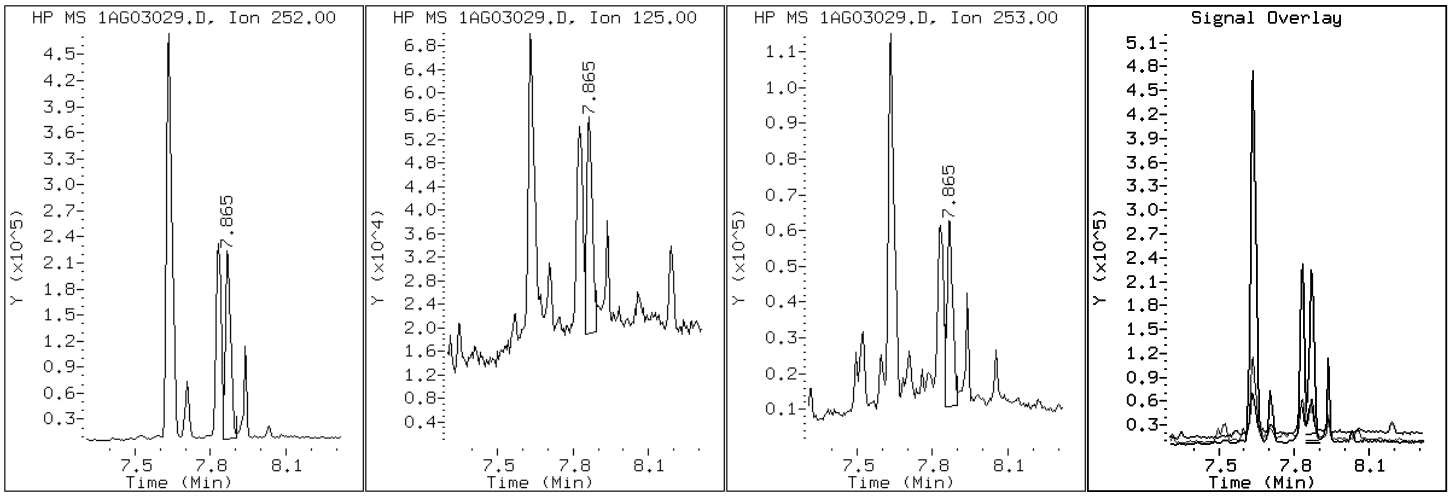
Client ID: CV1363E-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-9-A

Operator: SCC

23 Benzo(a)pyrene



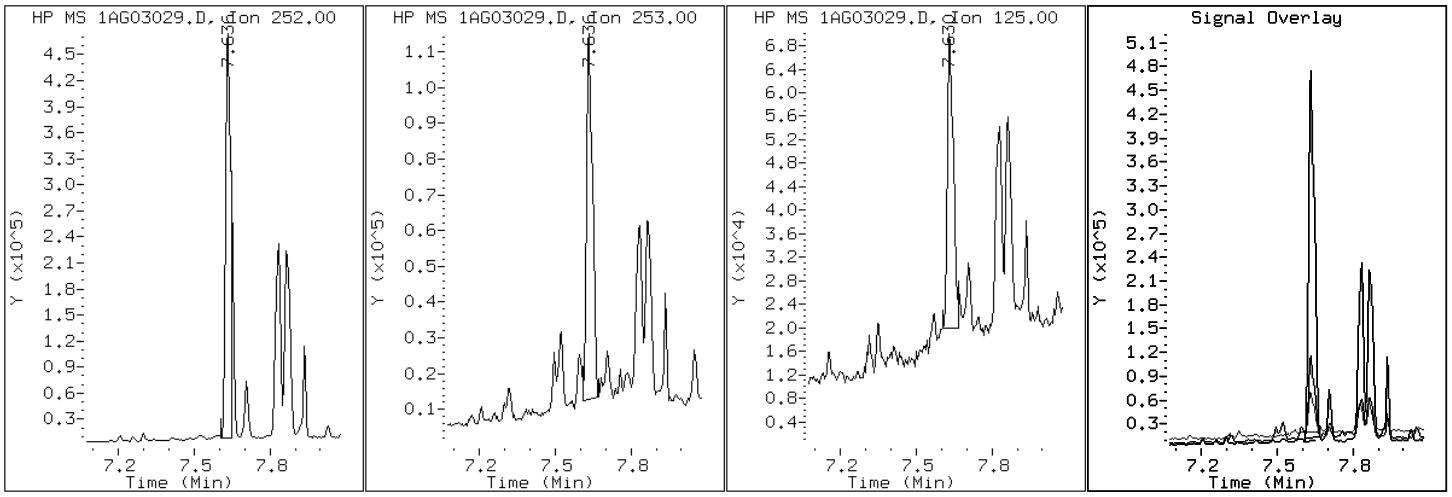
Data File: 1AG03029.D

Date: 03-JUL-2013 17:55

Client ID: CV1363E-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-9-A Operator: SCC

21 Benzo(b)fluoranthene



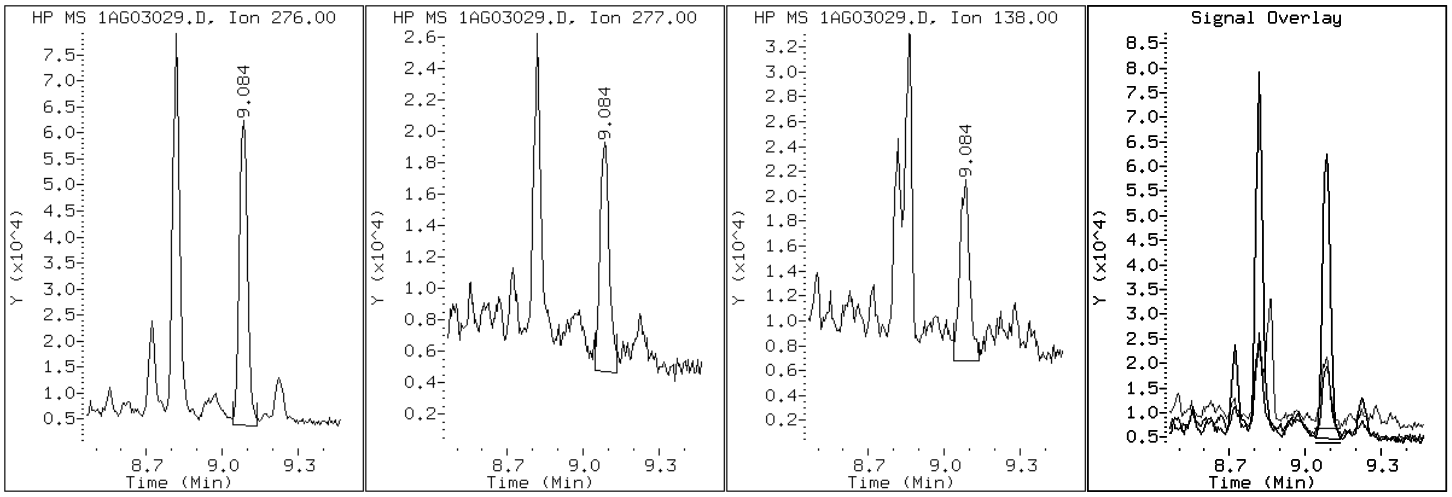
Data File: 1AG03029.D

Date: 03-JUL-2013 17:55

Client ID: CV1363E-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-9-A Operator: SCC

27 Benzo(g,h,i)perylene



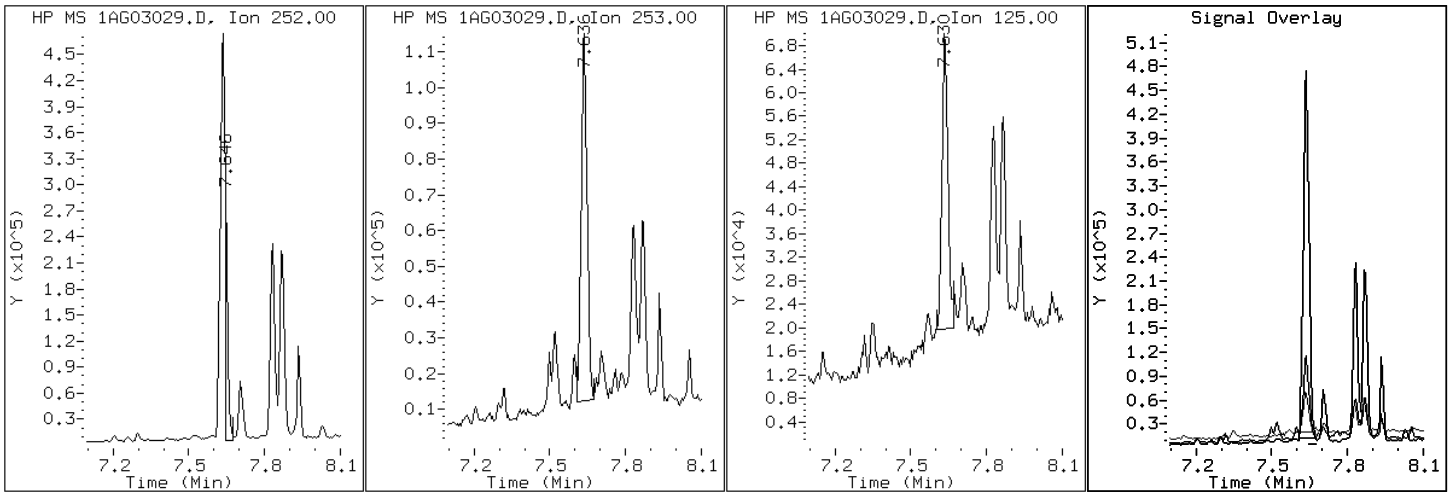
Data File: 1AG03029.D

Date: 03-JUL-2013 17:55

Client ID: CV1363E-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-9-A Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1AG03029.D

Date: 03-JUL-2013 17:55

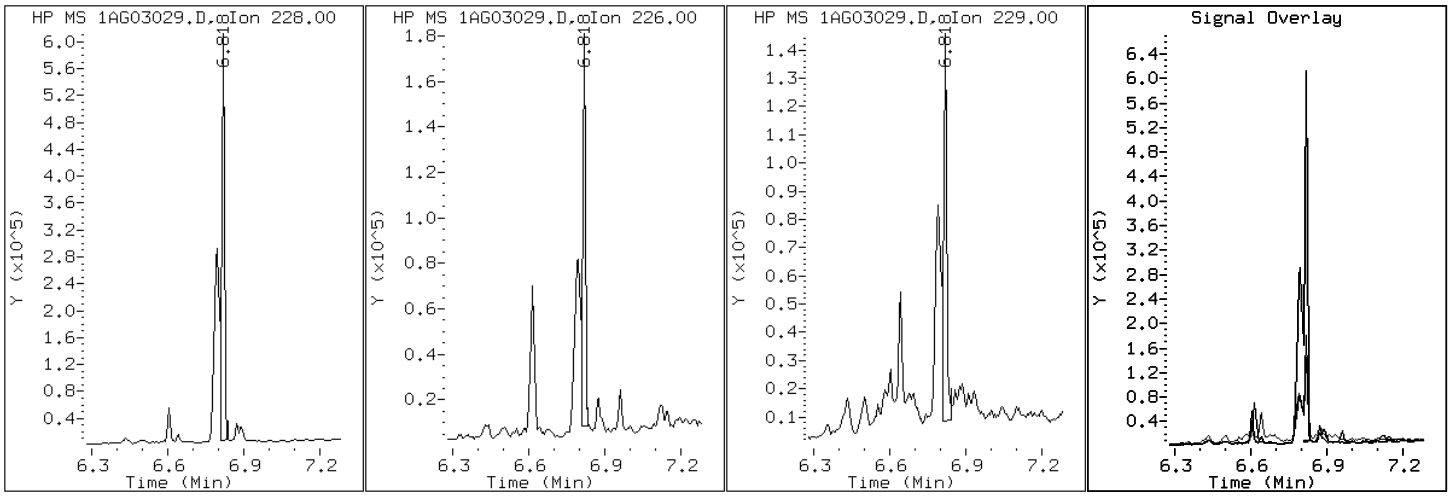
Client ID: CV1363E-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-9-A

Operator: SCC

20 Chrysene



Data File: 1AG03029.D

Date: 03-JUL-2013 17:55

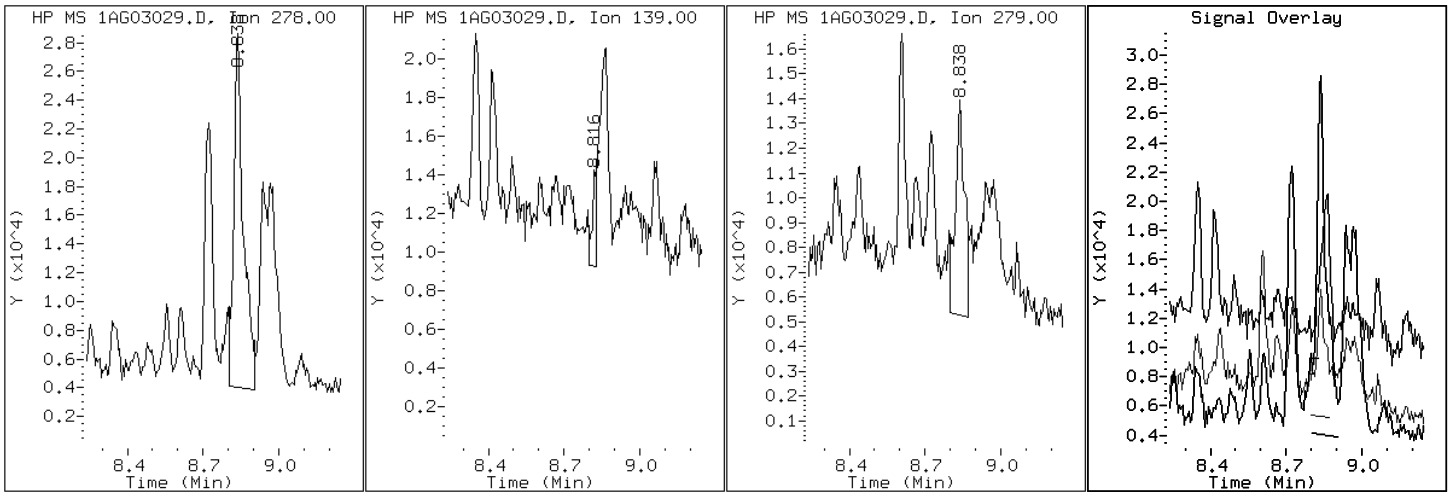
Client ID: CV1363E-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-9-A

Operator: SCC

26 Dibenzo(a,h)anthracene



Data File: 1AG03029.D

Date: 03-JUL-2013 17:55

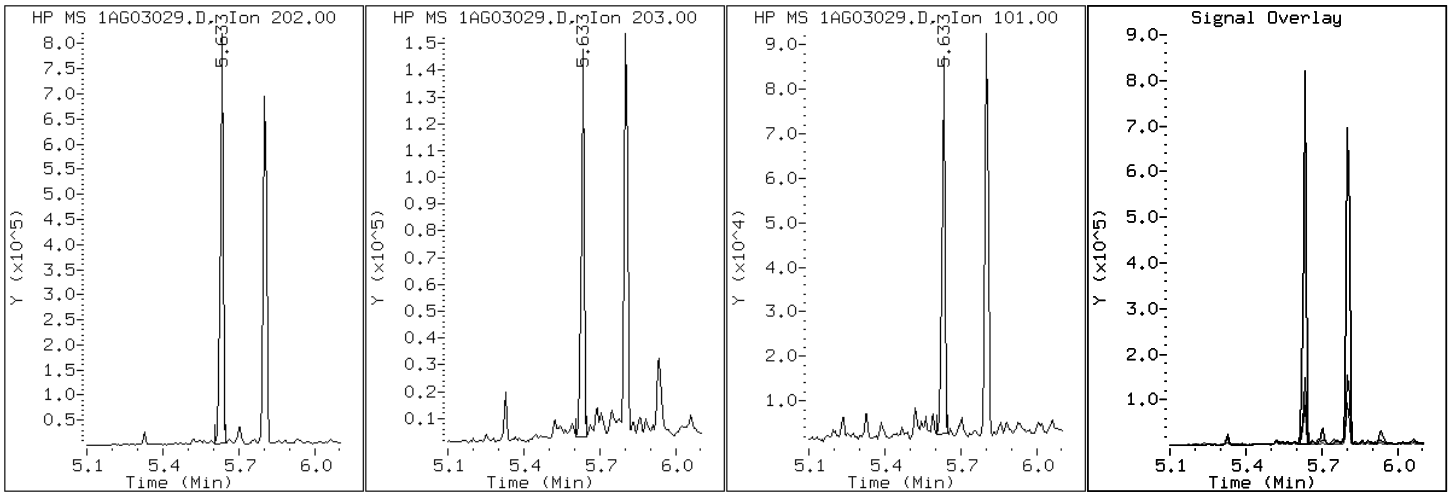
Client ID: CV1363E-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-9-A

Operator: SCC

16 Fluoranthene



Data File: 1AG03029.D

Date: 03-JUL-2013 17:55

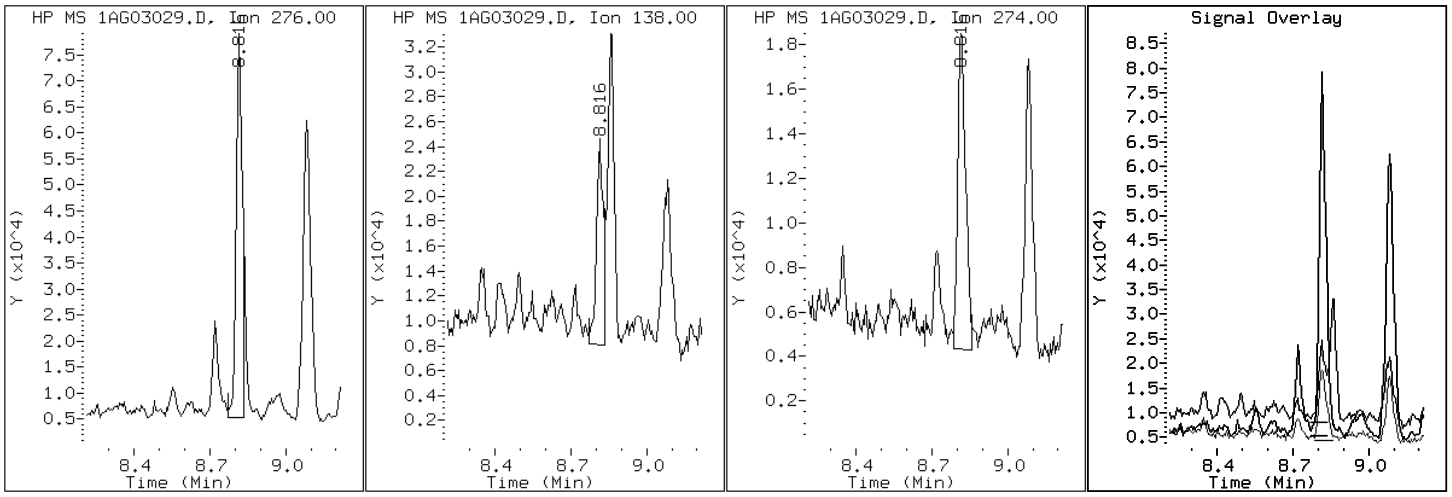
Client ID: CV1363E-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-9-A

Operator: SCC

25 Indeno(1,2,3-cd)pyrene



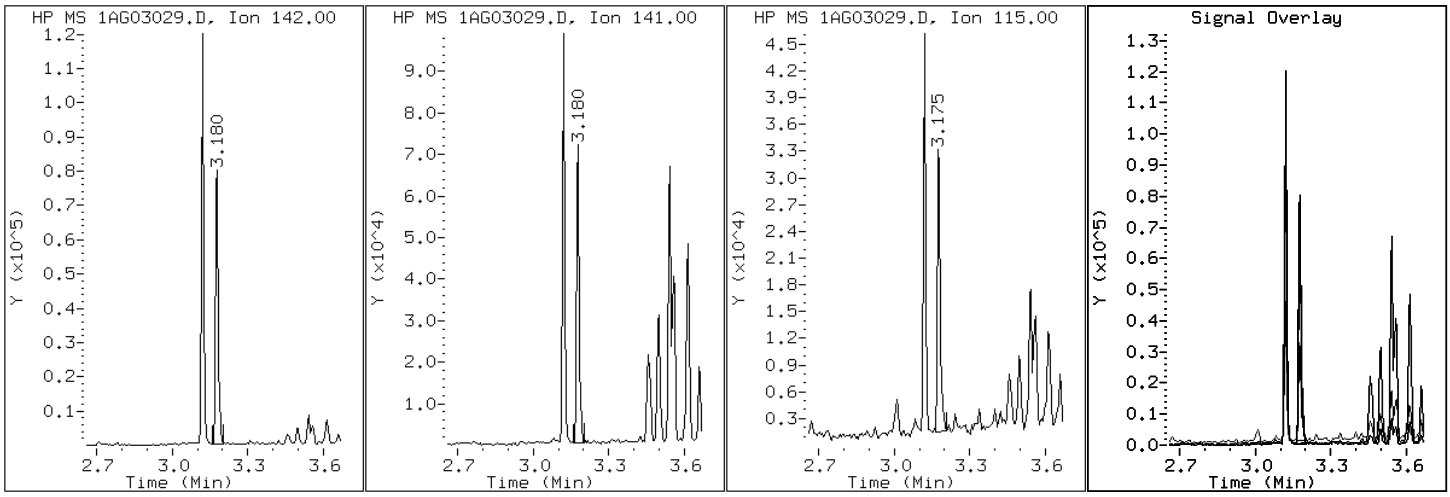
Data File: 1AG03029.D

Date: 03-JUL-2013 17:55

Client ID: CV1363E-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-9-A Operator: SCC

4 1-Methylnaphthalene



Data File: 1AG03029.D

Date: 03-JUL-2013 17:55

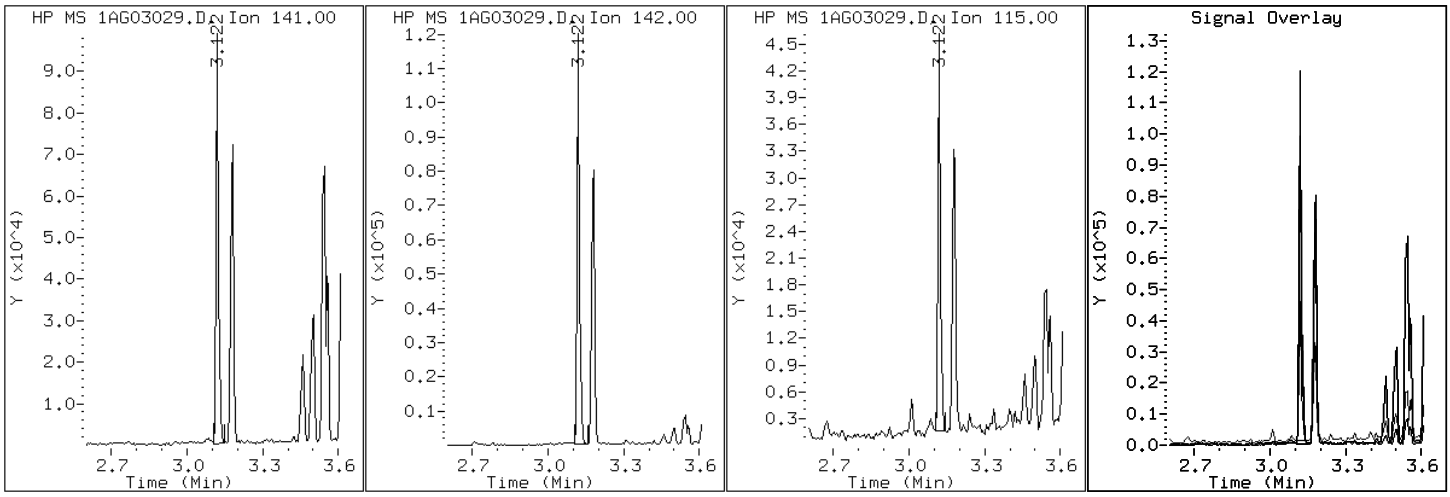
Client ID: CV1363E-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-9-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AG03029.D

Date: 03-JUL-2013 17:55

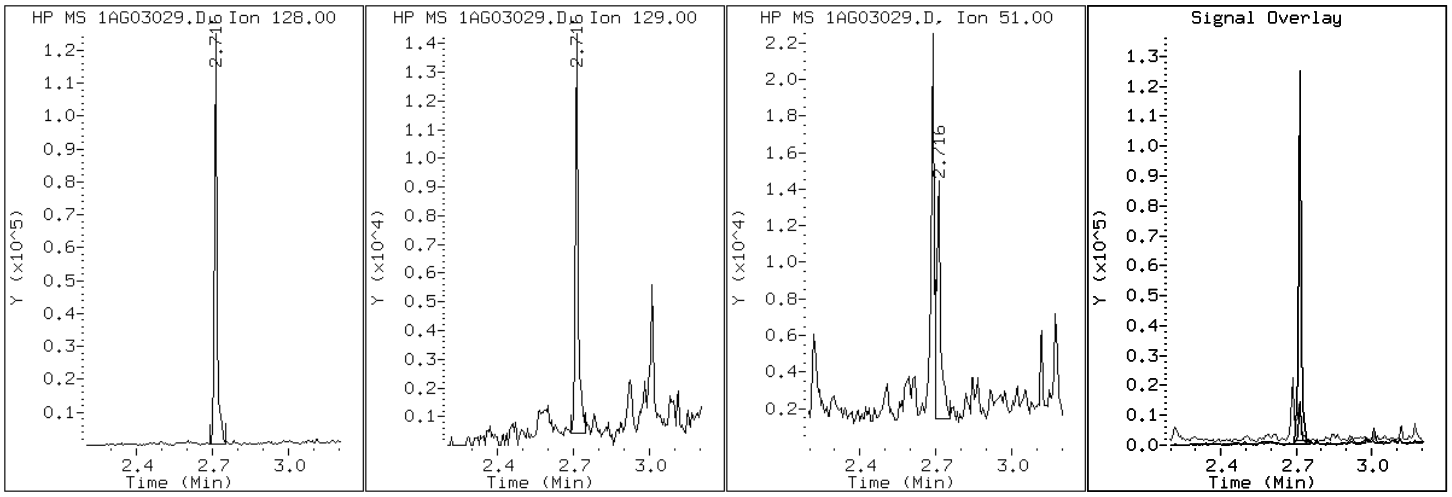
Client ID: CV1363E-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-9-A

Operator: SCC

2 Naphthalene



Data File: 1AG03029.D

Date: 03-JUL-2013 17:55

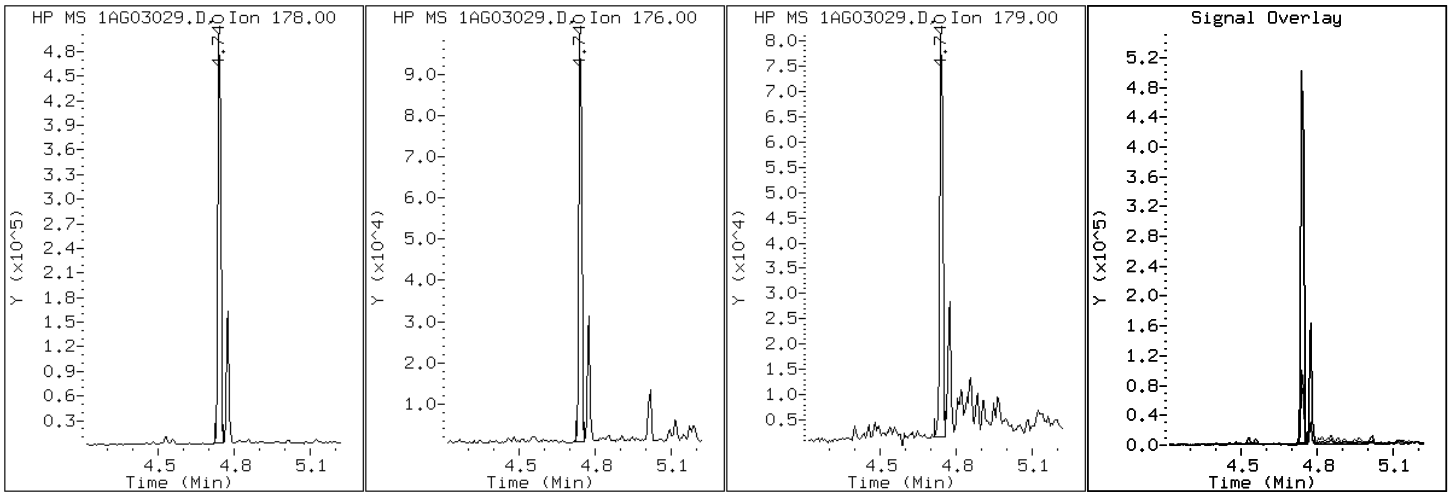
Client ID: CV1363E-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-9-A

Operator: SCC

12 Phenanthrene



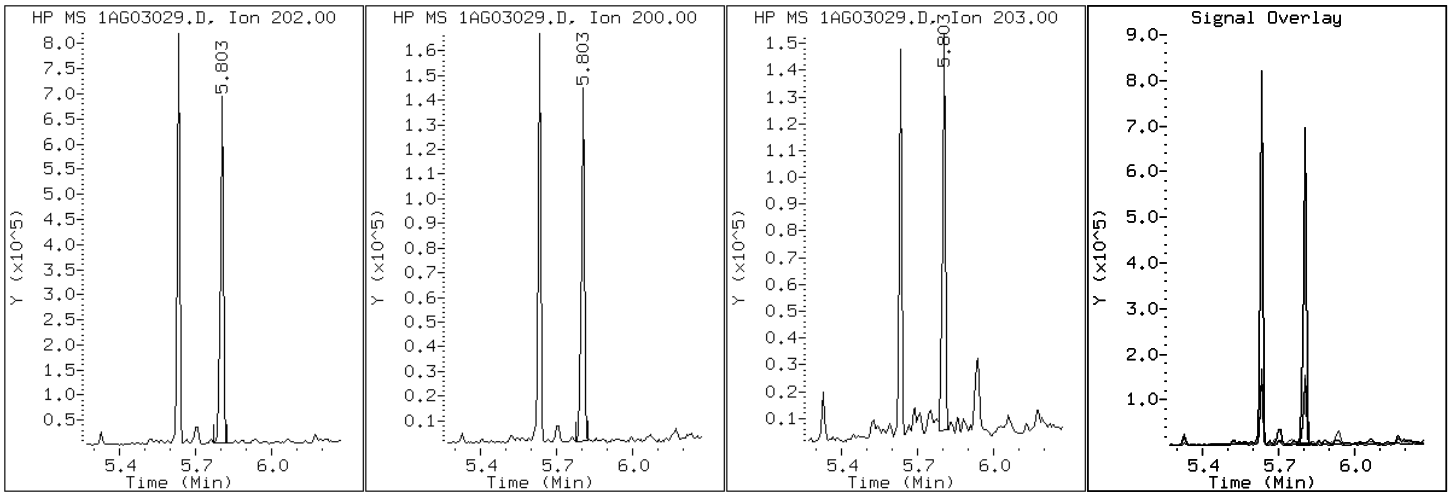
Data File: 1AG03029.D

Date: 03-JUL-2013 17:55

Client ID: CV1363E-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-9-A Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG03029.D
Inj. Date and Time: 03-JUL-2013 17:55
Instrument ID: BSMA5973.i
Client ID: CV1363E-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/08/2013

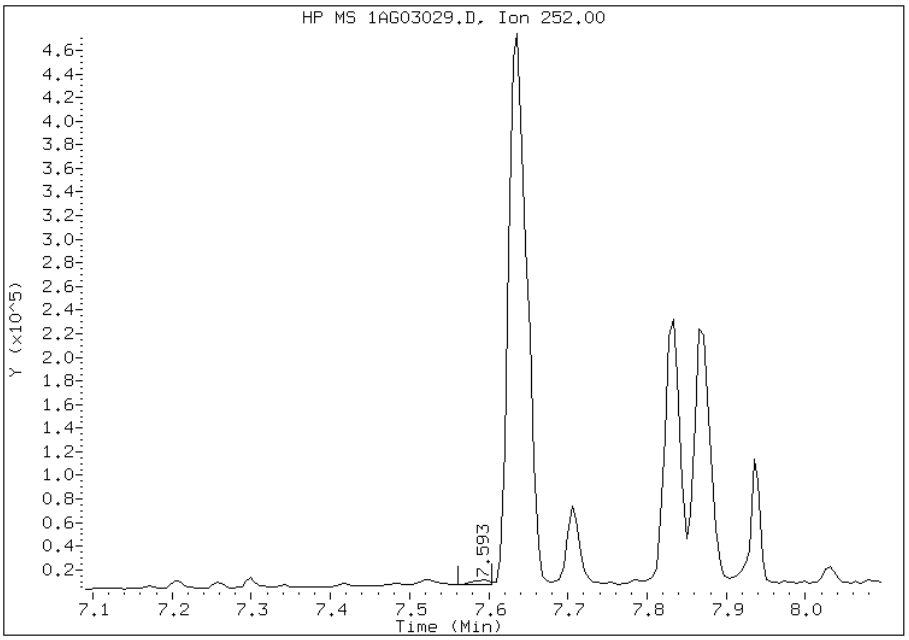
Processing Integration Results

RT: 7.59

Response: 5756

Amount: 0

Conc: 4



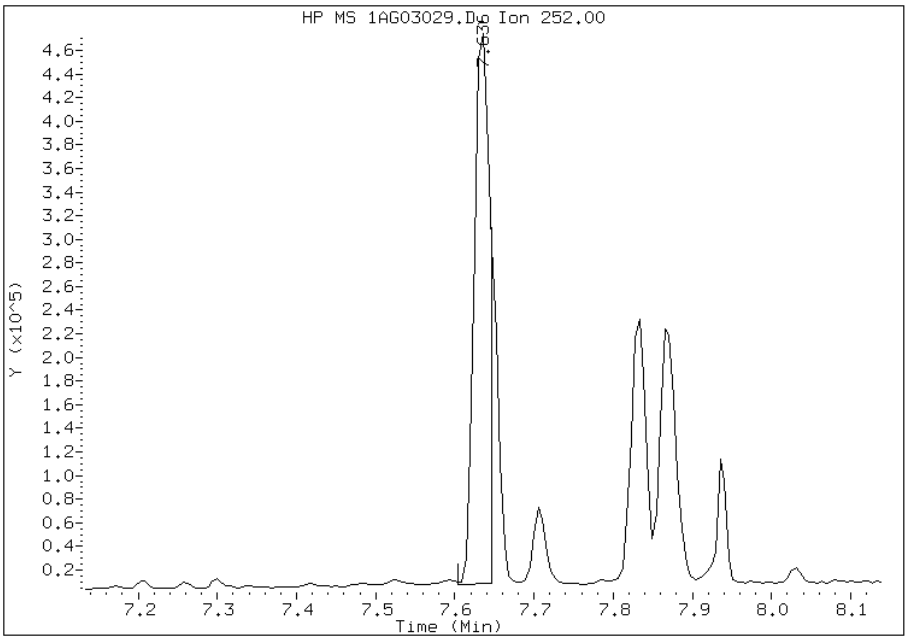
Manual Integration Results

RT: 7.64

Response: 636953

Amount: 6

Conc: 445



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:42
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG03029.D
Inj. Date and Time: 03-JUL-2013 17:55
Instrument ID: BSMA5973.i
Client ID: CV1363E-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/08/2013

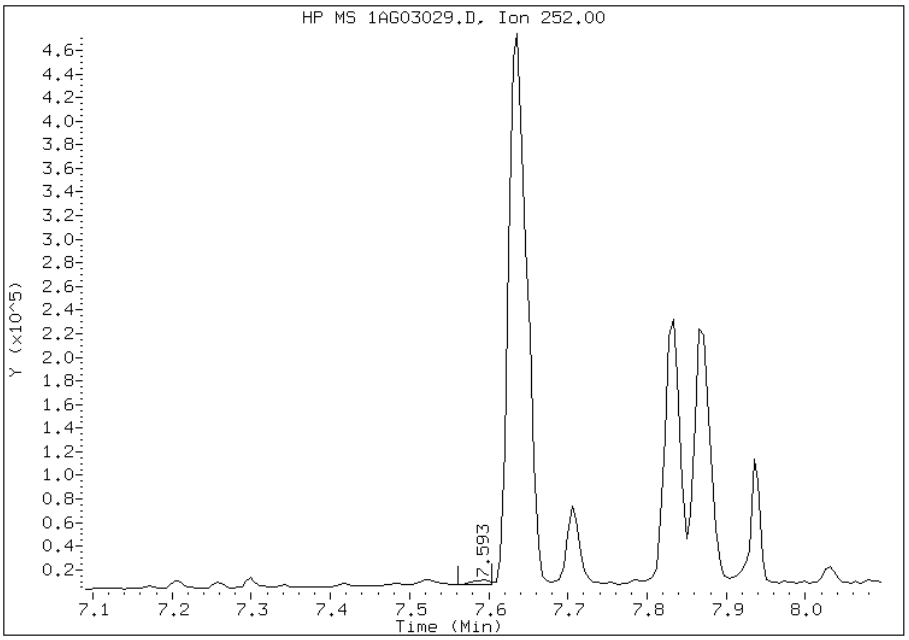
Processing Integration Results

RT: 7.59

Response: 5756

Amount: 0

Conc: 17



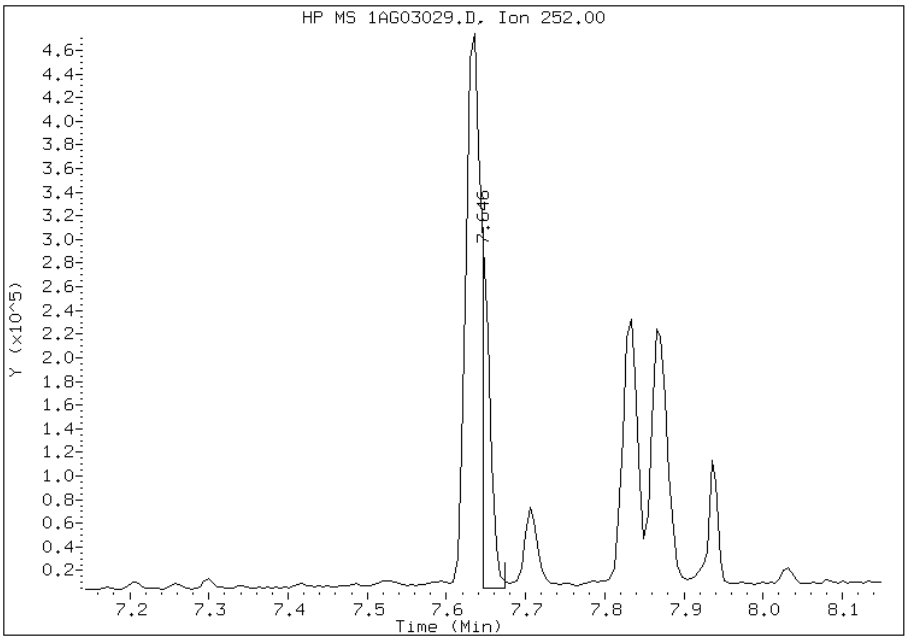
Manual Integration Results

RT: 7.65

Response: 211732

Amount: 2

Conc: 130



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG03029.D
Inj. Date and Time: 03-JUL-2013 17:55
Instrument ID: BSMA5973.i
Client ID: CV1363E-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

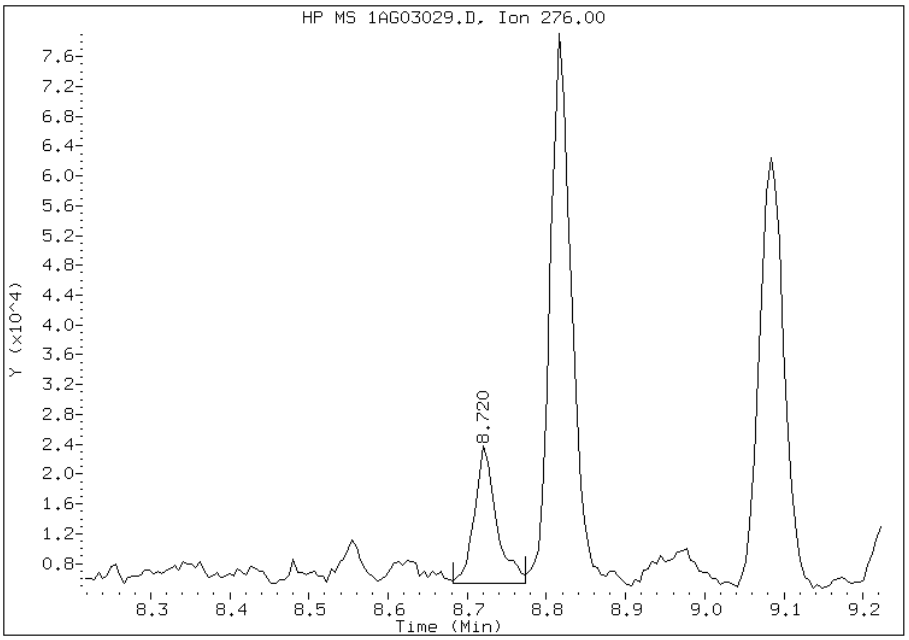
Processing Integration Results

RT: 8.72

Response: 35189

Amount: 0

Conc: 30



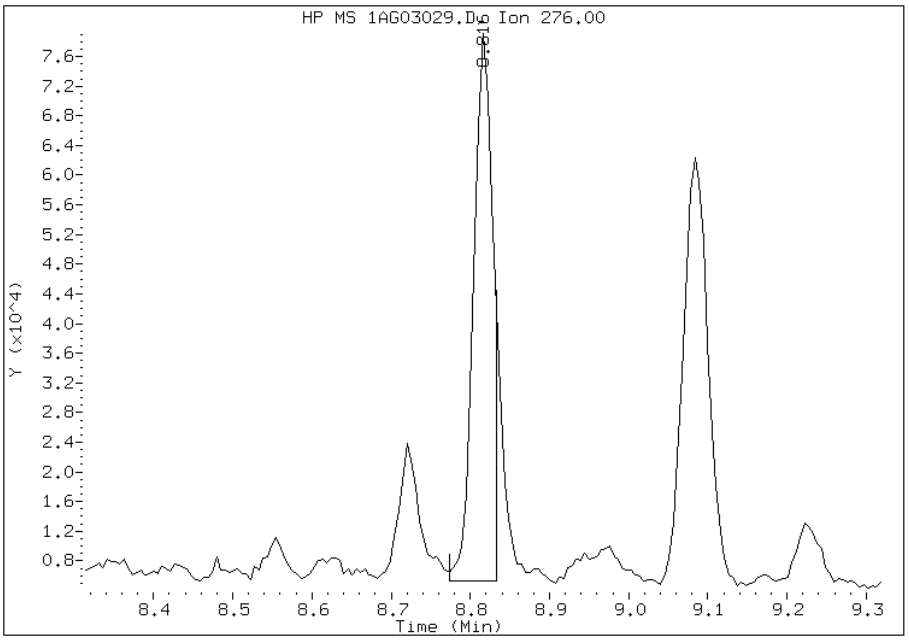
Manual Integration Results

RT: 8.82

Response: 122323

Amount: 1

Conc: 103



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:42
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363F-CS | Lab Sample ID: 680-91719-10

Matrix: Solid | Lab File ID: 1AG03030.D

Analysis Method: 8270C LL | Date Collected: 06/24/2013 14:07

Extract. Method: 3546 | Date Extracted: 07/02/2013 07:50

Sample wt/vol: 15.04(g) | Date Analyzed: 07/03/2013 18:10

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139084 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	49		47	5.8
120-12-7	Anthracene	71		9.8	4.9
56-55-3	Benzo[a]anthracene	230		9.3	4.5
50-32-8	Benzo[a]pyrene	210		12	6.1
205-99-2	Benzo[b]fluoranthene	380		14	7.1
191-24-2	Benzo[g,h,i]perylene	95		23	5.1
207-08-9	Benzo[k]fluoranthene	130		9.3	4.2
218-01-9	Chrysene	330		10	5.2
53-70-3	Dibenz(a,h)anthracene	41		23	4.8
206-44-0	Fluoranthene	360		23	4.7
86-73-7	Fluorene	23	U	23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	95		23	8.3
90-12-0	1-Methylnaphthalene	99		47	5.1
91-57-6	2-Methylnaphthalene	110		47	8.3
91-20-3	Naphthalene	100		47	5.1
85-01-8	Phenanthrene	230		9.3	4.5
129-00-0	Pyrene	250		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	41		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03030.D
Lab Smp Id: 680-91719-A-10-A Client Smp ID: CV1363F-CS
Inj Date : 03-JUL-2013 18:10
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-A-10-A
Misc Info : 680-91719-A-10-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	14.402	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.705	2.689	(1.000)	2960132	40.0000	(H)
* 7 Acenaphthene-d10	164	3.746	3.725	(1.000)	1755094	40.0000	
* 11 Phenanthrene-d10	188	4.729	4.703	(1.000)	2967396	40.0000	(H)
$ 15 o-Terphenyl	230	5.018	4.996	(1.061)	254616	4.10186	318.6156(H)
* 19 Chrysene-d12	240	6.813	6.759	(1.000)	4165110	40.0000	
* 24 Perylene-d12	264	7.924	7.860	(1.000)	3470986	40.0000	(H)
2 Naphthalene	128	2.715	2.705	(1.004)	103092	1.33386	103.6090(H)
3 2-Methylnaphthalene	141	3.121	3.105	(1.154)	77819	1.44748	112.4343(H)
4 1-Methylnaphthalene	142	3.180	3.164	(1.176)	82446	1.27961	99.3950(H)
6 Acenaphthylene	152	3.656	3.634	(0.976)	58387	0.62563	48.5964
12 Phenanthrene	178	4.745	4.719	(1.003)	323054	2.99825	232.8916(H)
13 Anthracene	178	4.777	4.756	(1.010)	93372	0.92003	71.4638(H)
16 Fluoranthene	202	5.637	5.600	(1.192)	583877	4.59906	357.2361(H)
17 Pyrene	202	5.808	5.771	(0.853)	548500	3.26639	253.7196

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
18 Benzo(a)anthracene	228	6.802	6.743	(0.998)	421724	2.91356	226.3134
20 Chrysene	228	6.823	6.781	(1.002)	580949	4.25832	330.7689
21 Benzo(b)fluoranthene	252	7.635	7.577	(0.964)	537935	4.89666	380.3525(MH)
22 Benzo(k)fluoranthene	252	7.646	7.598	(0.965)	215122	1.71725	133.3889(QMH)
23 Benzo(a)pyrene	252	7.870	7.812	(0.993)	283463	2.76089	214.4551(H)
25 Indeno(1,2,3-cd)pyrene	276	8.816	8.715	(1.113)	111576	1.21739	94.5618(MH)
26 Dibenzo(a,h)anthracene	278	8.832	8.741	(1.115)	48510	0.53414	41.4898(H)
27 Benzo(g,h,i)perylene	276	9.078	8.966	(1.146)	119720	1.22669	95.2846(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG03030.D

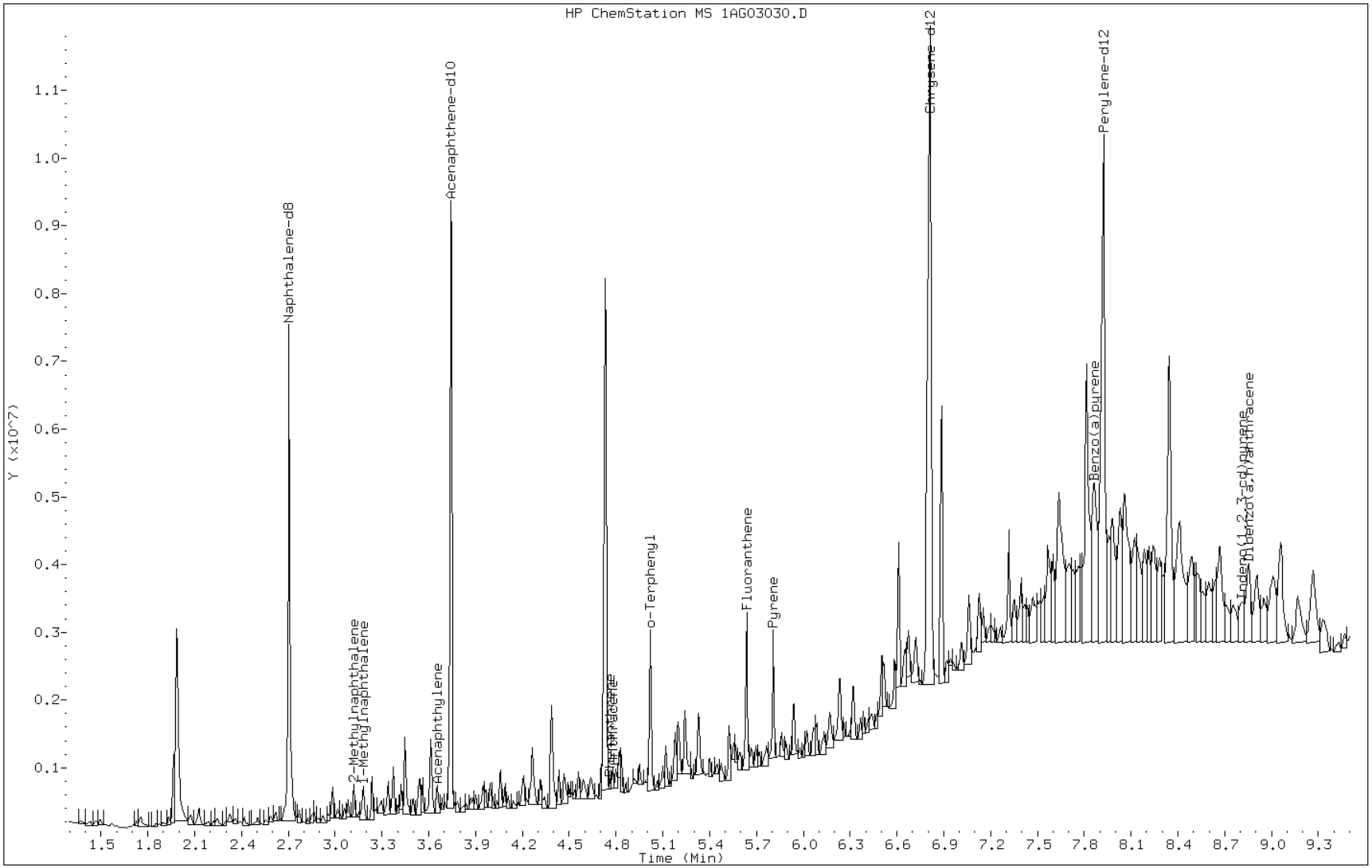
Date: 03-JUL-2013 18:10

Client ID: CV1363F-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-10-A

Operator: SCC



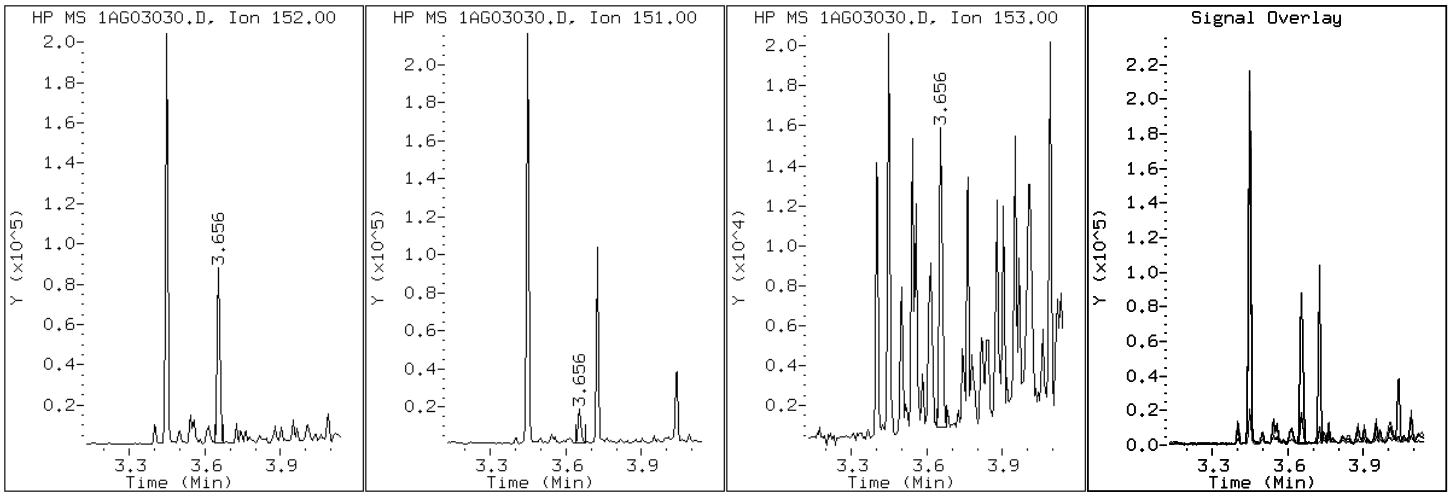
Data File: 1AG03030.D

Date: 03-JUL-2013 18:10

Client ID: CV1363F-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-10-A Operator: SCC

6 Acenaphthylene



Data File: 1AG03030.D

Date: 03-JUL-2013 18:10

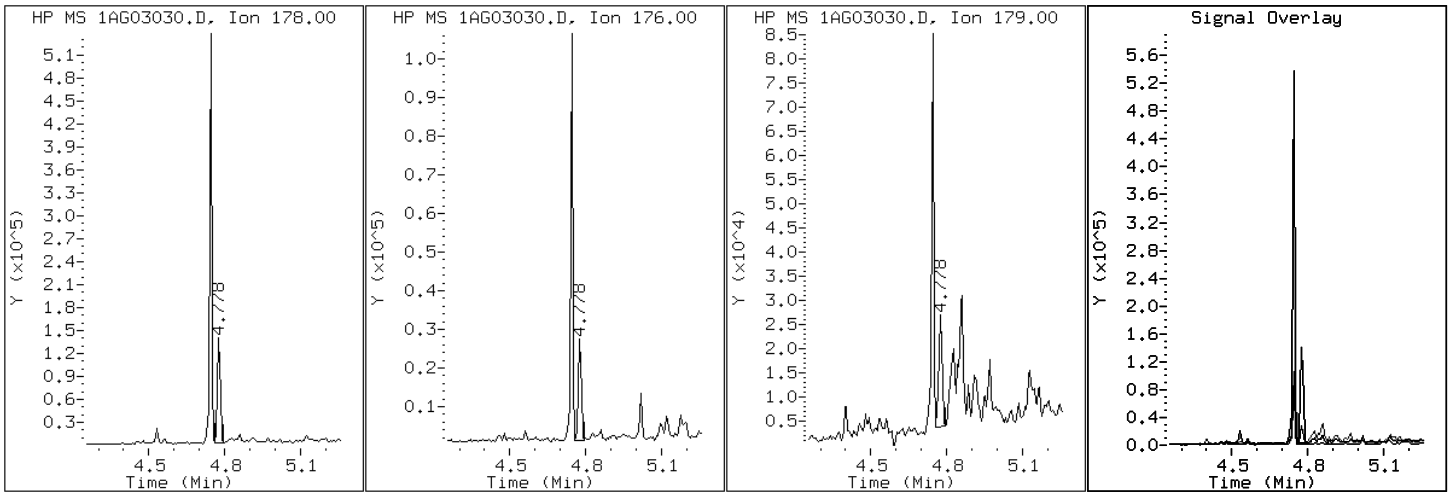
Client ID: CV1363F-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-10-A

Operator: SCC

13 Anthracene



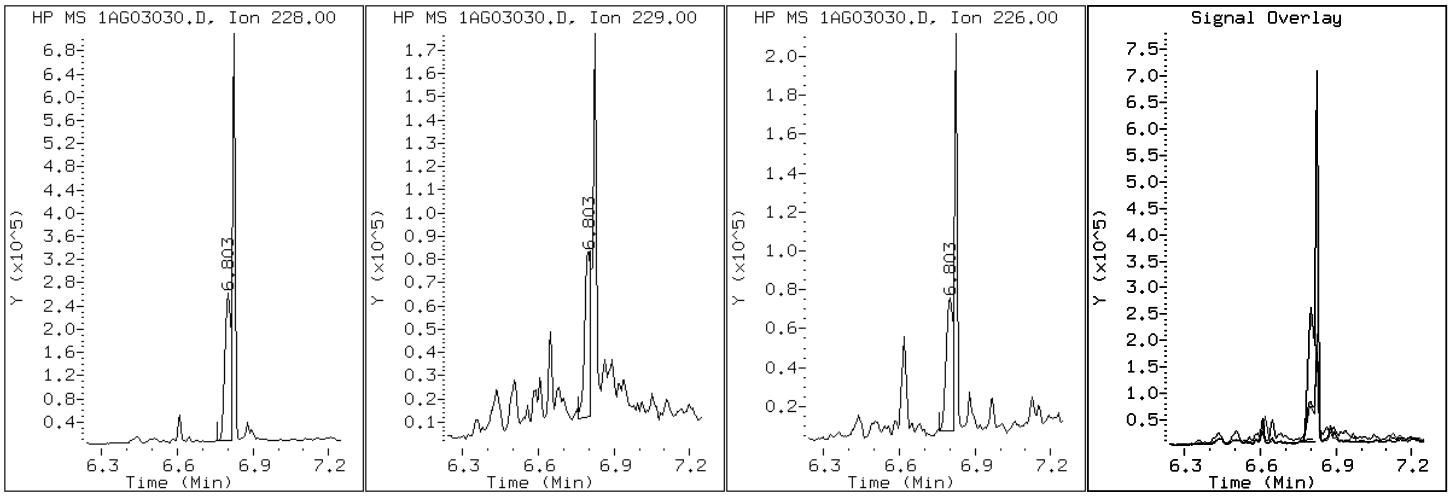
Data File: 1AG03030.D

Date: 03-JUL-2013 18:10

Client ID: CV1363F-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-10-A Operator: SCC

18 Benzo(a)anthracene



Data File: 1AG03030.D

Date: 03-JUL-2013 18:10

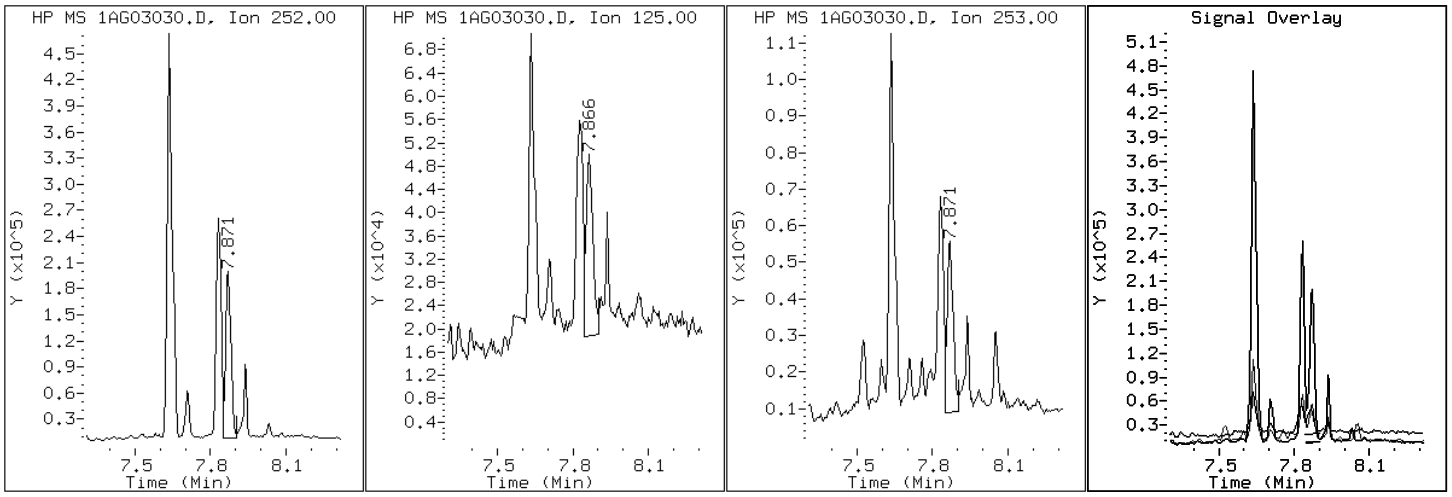
Client ID: CV1363F-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-10-A

Operator: SCC

23 Benzo(a)pyrene



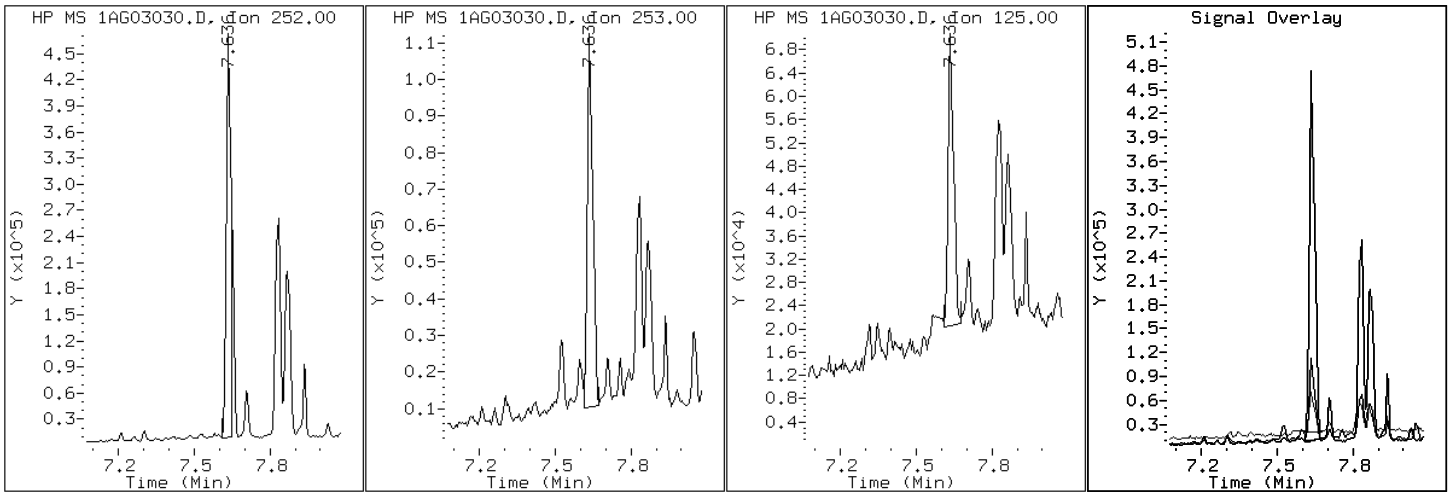
Data File: 1AG03030.D

Date: 03-JUL-2013 18:10

Client ID: CV1363F-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-10-A Operator: SCC

21 Benzo(b)fluoranthene



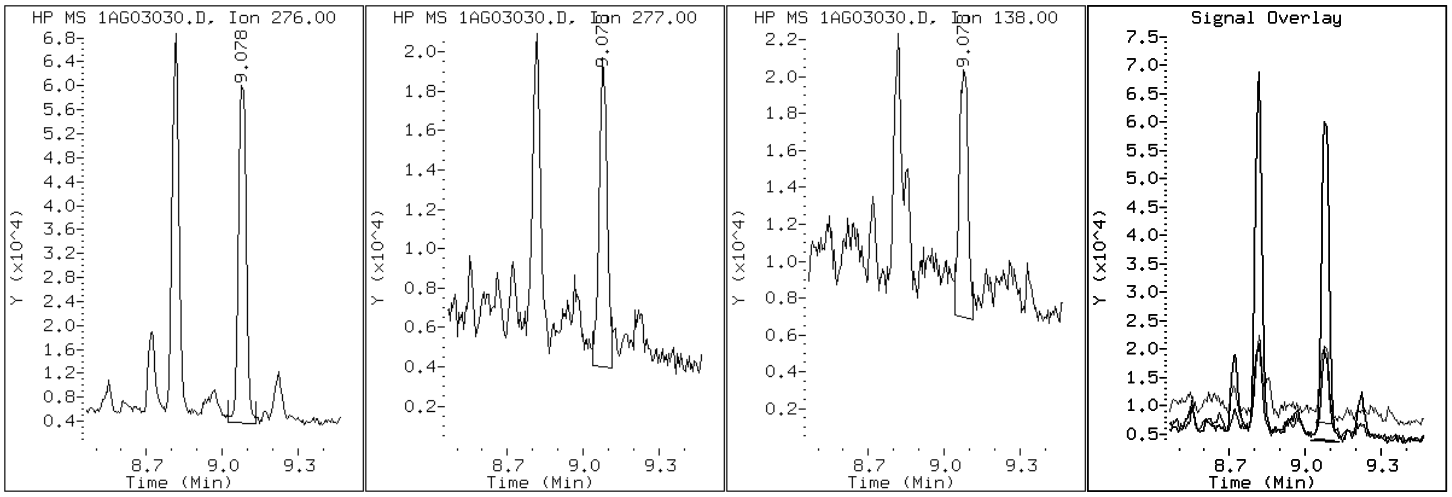
Data File: 1AG03030.D

Date: 03-JUL-2013 18:10

Client ID: CV1363F-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-10-A Operator: SCC

27 Benzo(g,h,i)perylene



Data File: 1AG03030.D

Date: 03-JUL-2013 18:10

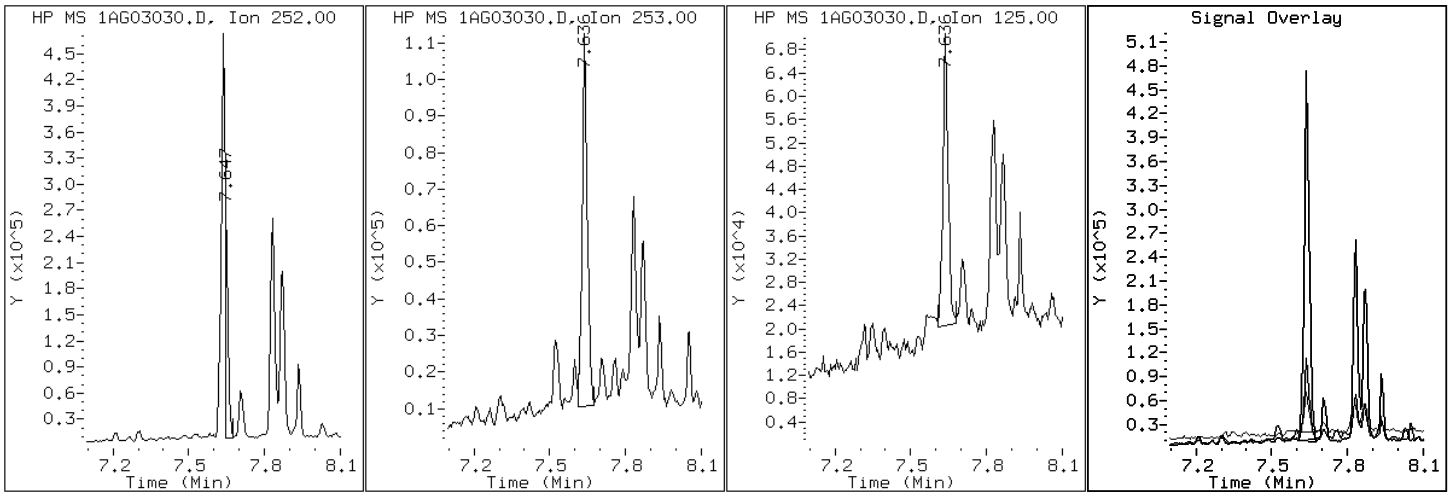
Client ID: CV1363F-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-10-A

Operator: SCC

22 Benzo(k)fluoranthene



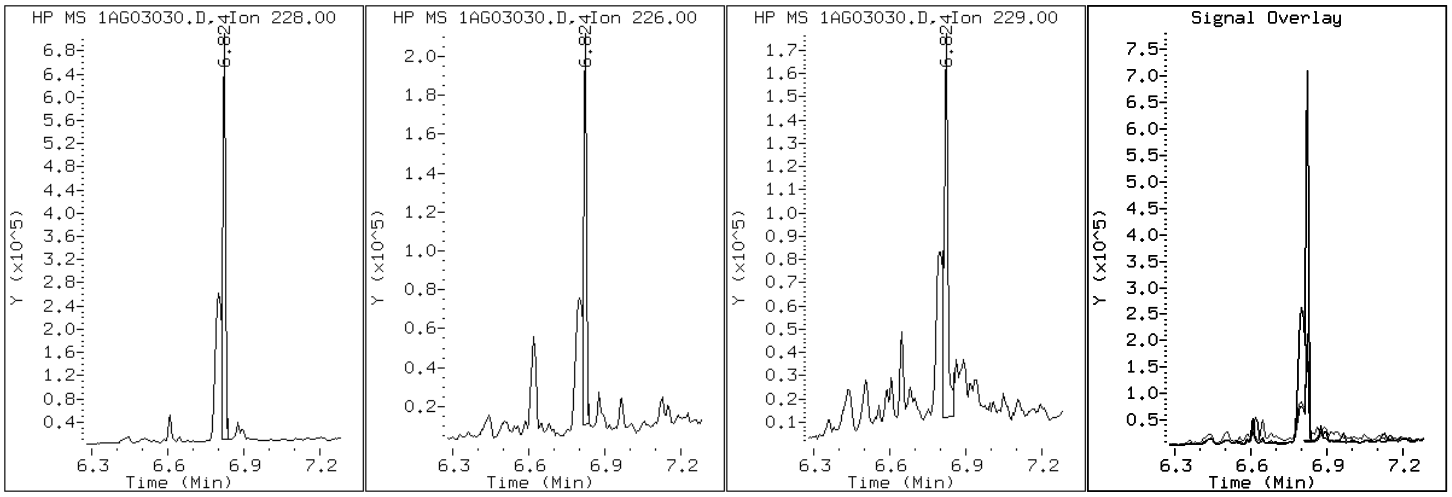
Data File: 1AG03030.D

Date: 03-JUL-2013 18:10

Client ID: CV1363F-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-10-A Operator: SCC

20 Chrysene



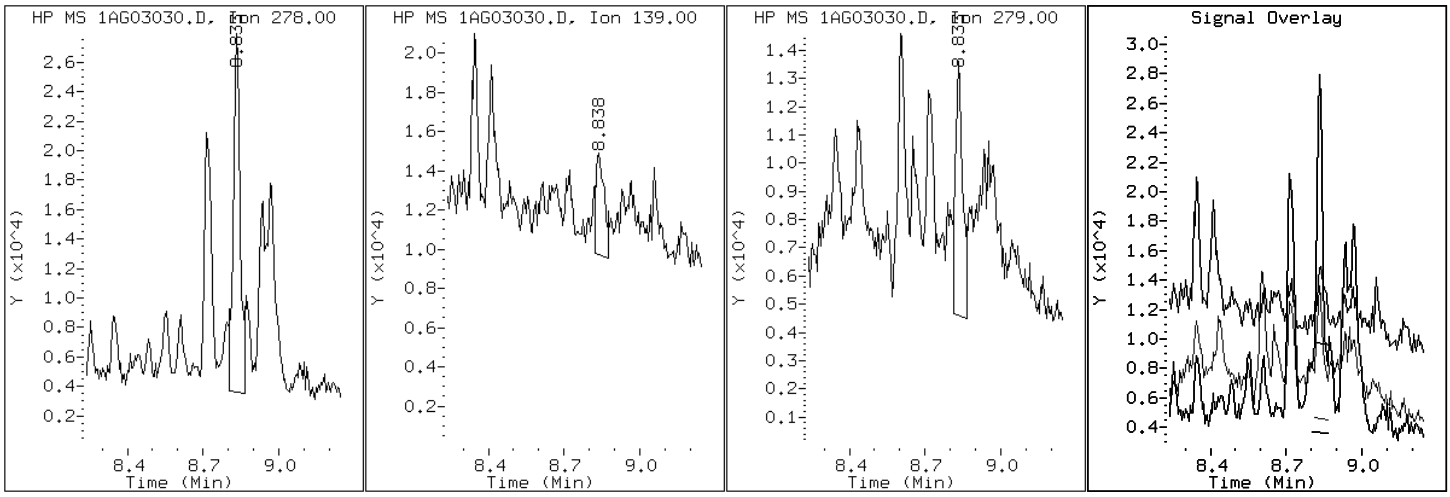
Data File: 1AG03030.D

Date: 03-JUL-2013 18:10

Client ID: CV1363F-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-10-A Operator: SCC

26 Dibenzo(a,h)anthracene



Data File: 1AG03030.D

Date: 03-JUL-2013 18:10

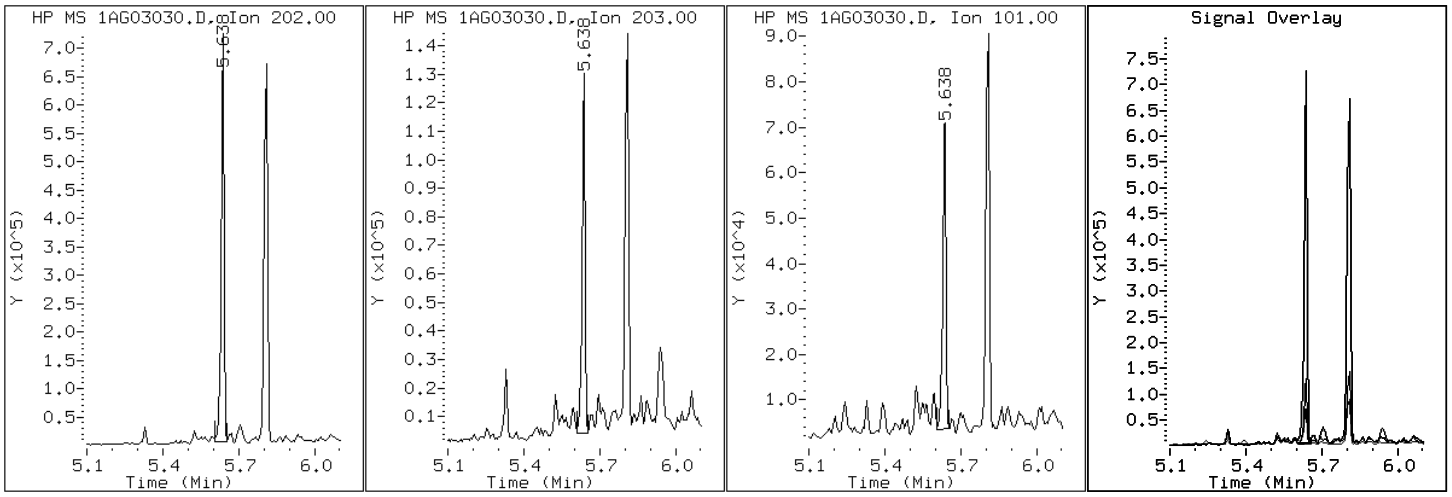
Client ID: CV1363F-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-10-A

Operator: SCC

16 Fluoranthene



Data File: 1AG03030.D

Date: 03-JUL-2013 18:10

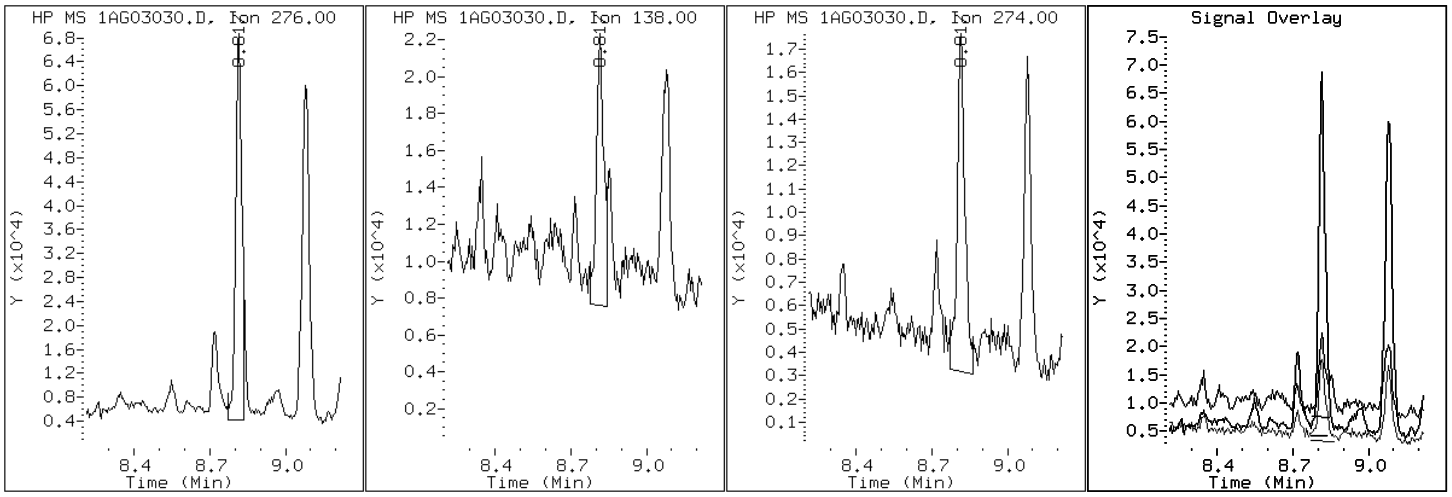
Client ID: CV1363F-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-10-A

Operator: SCC

25 Indeno(1,2,3-cd)pyrene



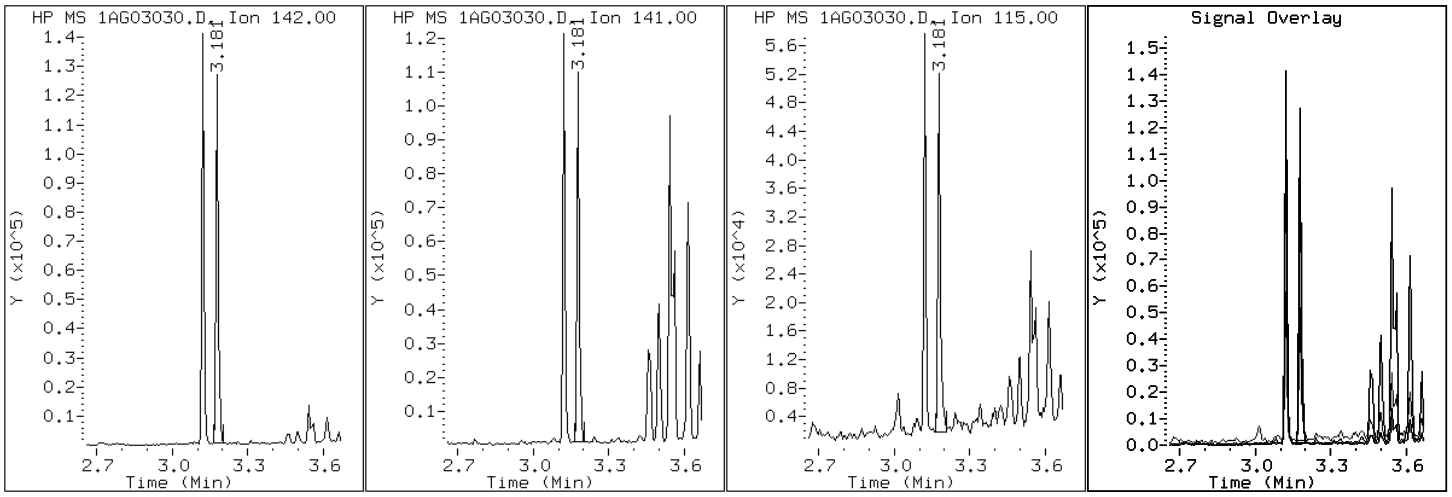
Data File: 1AG03030.D

Date: 03-JUL-2013 18:10

Client ID: CV1363F-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-10-A Operator: SCC

4 1-Methylnaphthalene



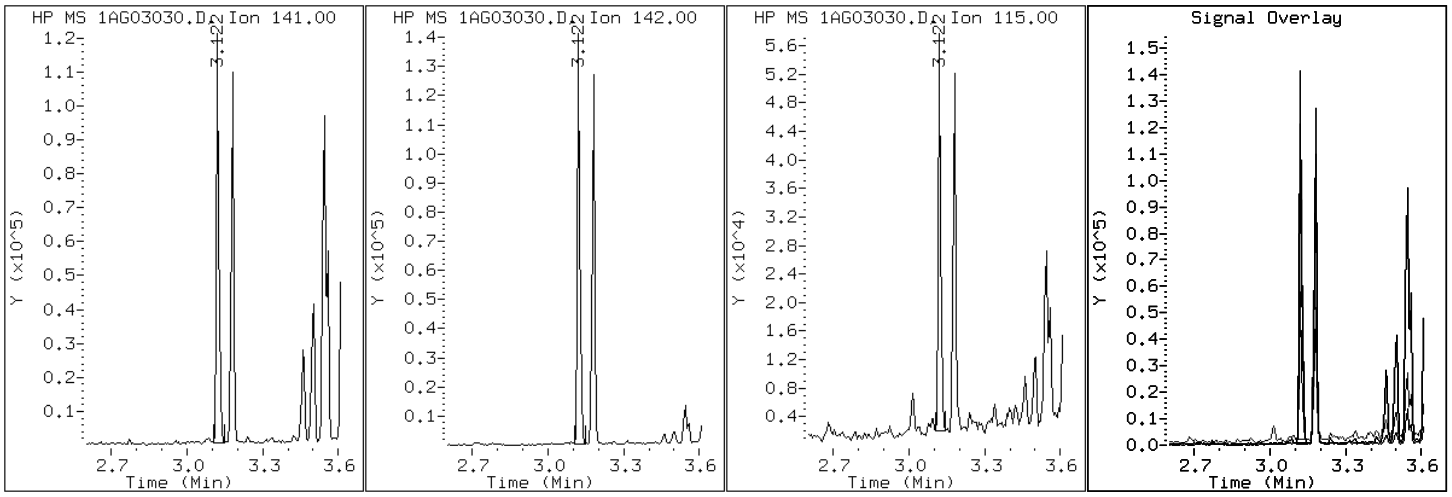
Data File: 1AG03030.D

Date: 03-JUL-2013 18:10

Client ID: CV1363F-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-10-A Operator: SCC

3 2-Methylnaphthalene



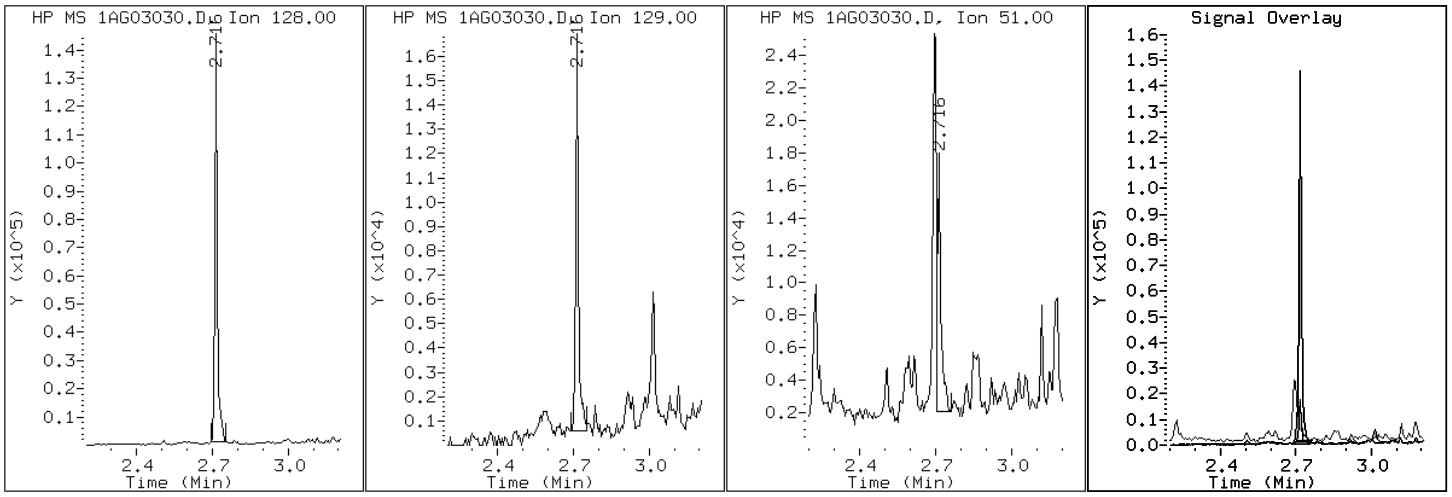
Data File: 1AG03030.D

Date: 03-JUL-2013 18:10

Client ID: CV1363F-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-10-A Operator: SCC

2 Naphthalene



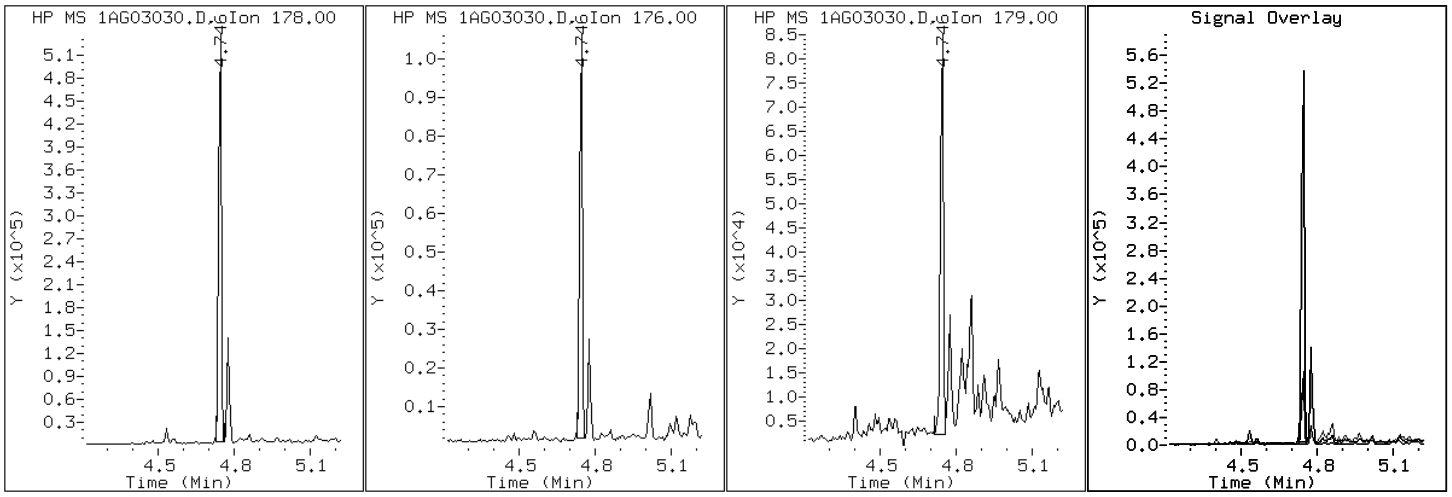
Data File: 1AG03030.D

Date: 03-JUL-2013 18:10

Client ID: CV1363F-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-10-A Operator: SCC

12 Phenanthrene



Data File: 1AG03030.D

Date: 03-JUL-2013 18:10

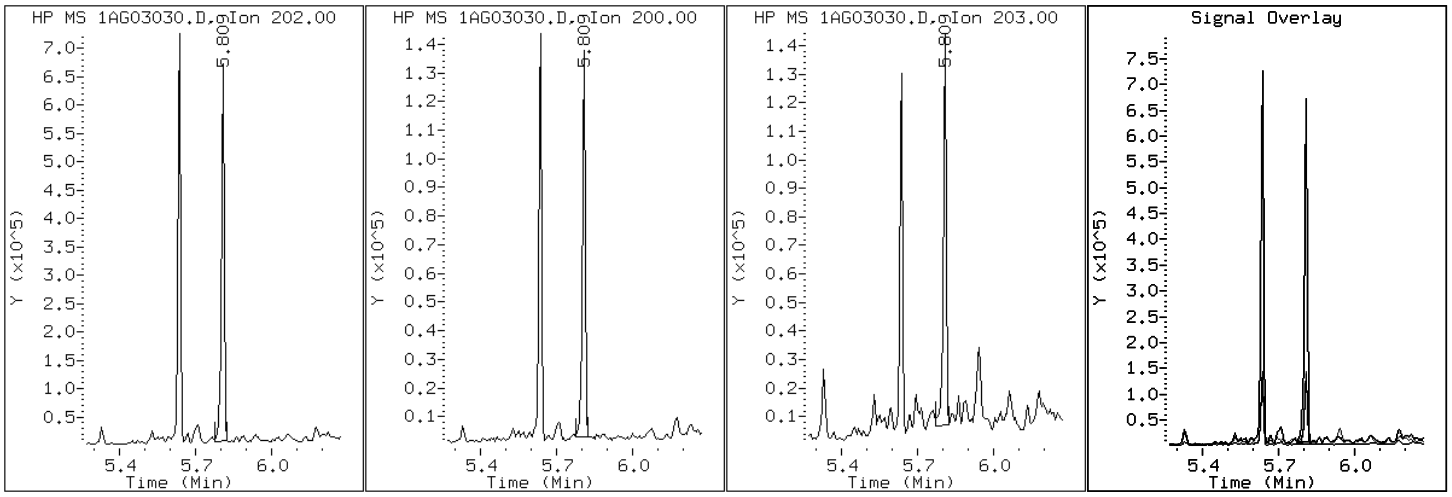
Client ID: CV1363F-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-10-A

Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG03030.D
Inj. Date and Time: 03-JUL-2013 18:10
Instrument ID: BSMA5973.i
Client ID: CV1363F-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/08/2013

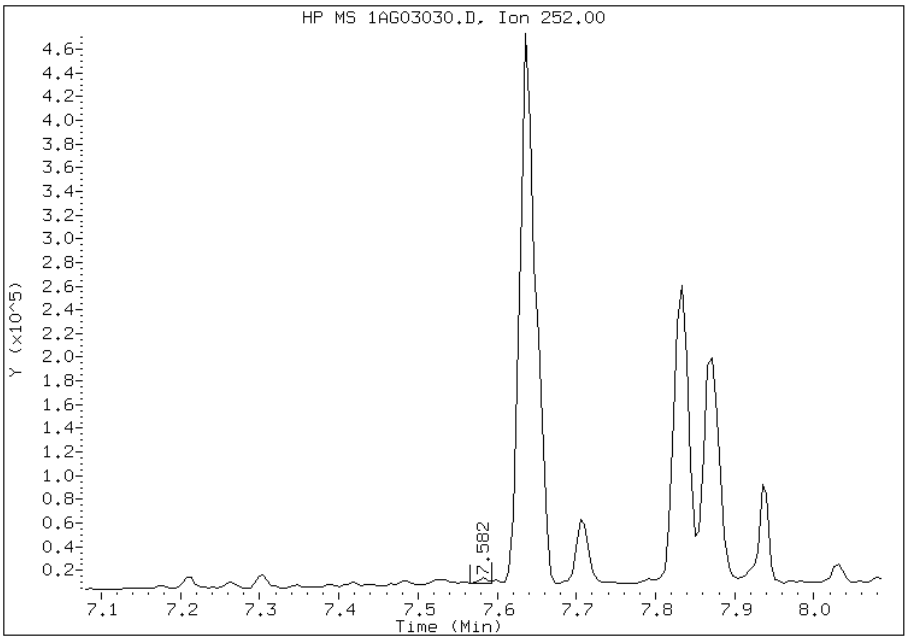
Processing Integration Results

RT: 7.58

Response: 3441

Amount: 0

Conc: 2



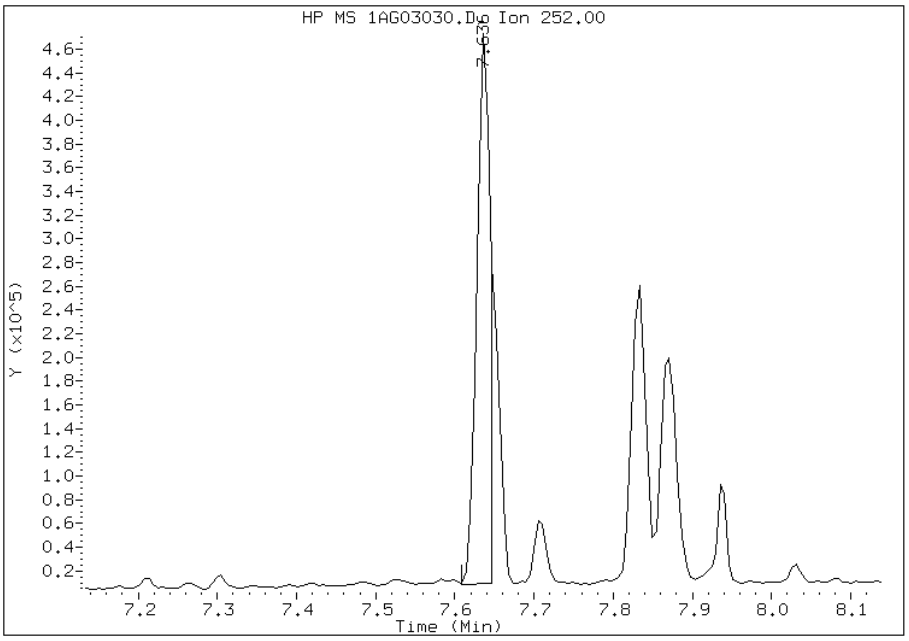
Manual Integration Results

RT: 7.64

Response: 537935

Amount: 5

Conc: 380



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:43
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG03030.D
Inj. Date and Time: 03-JUL-2013 18:10
Instrument ID: BSMA5973.i
Client ID: CV1363F-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/08/2013

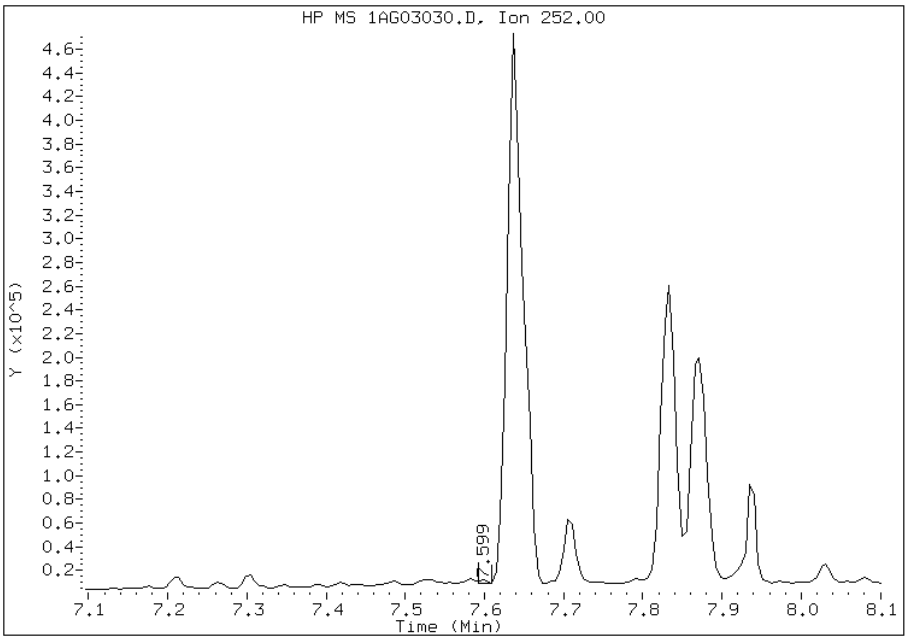
Processing Integration Results

RT: 7.60

Response: 1901

Amount: 0

Conc: 15



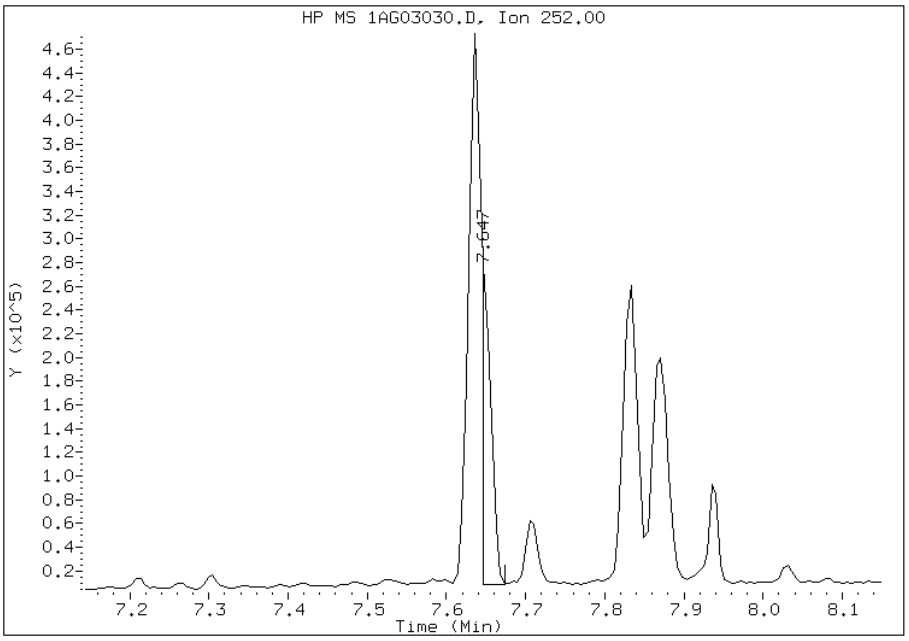
Manual Integration Results

RT: 7.65

Response: 215122

Amount: 2

Conc: 133



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG03030.D
Inj. Date and Time: 03-JUL-2013 18:10
Instrument ID: BSMA5973.i
Client ID: CV1363F-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

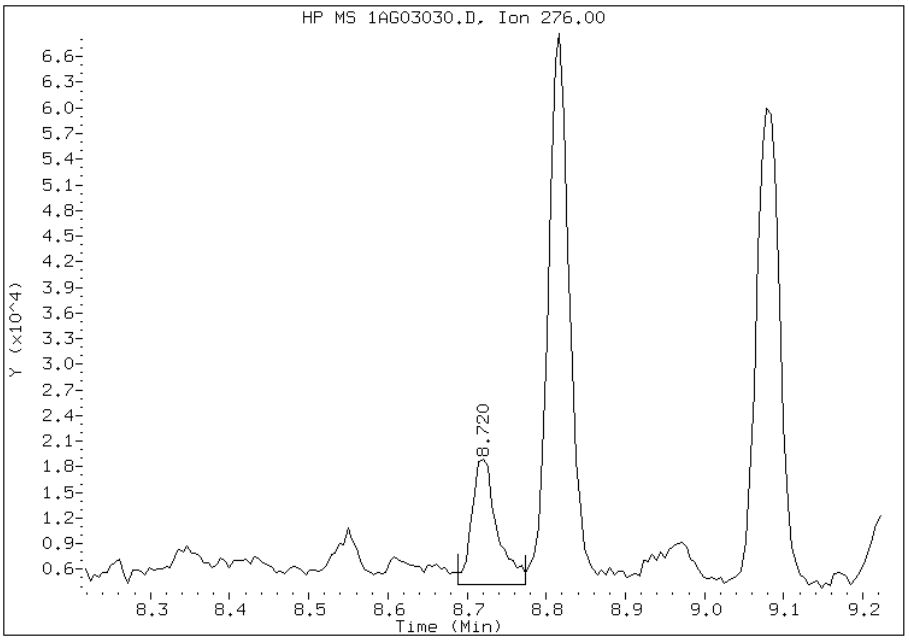
Processing Integration Results

RT: 8.72

Response: 32558

Amount: 0

Conc: 28



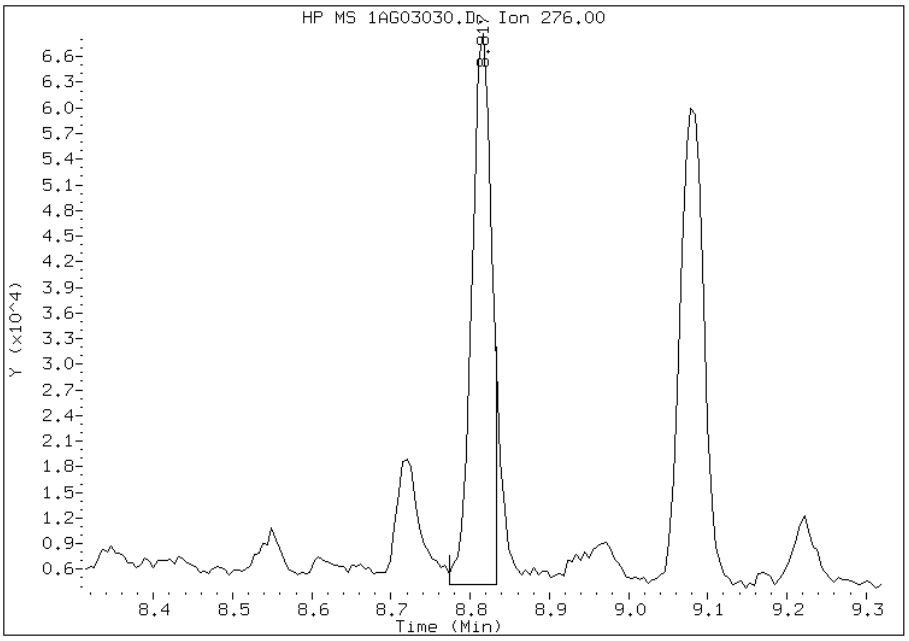
Manual Integration Results

RT: 8.82

Response: 111576

Amount: 1

Conc: 95



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:44
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363G-CS | Lab Sample ID: 680-91719-11

Matrix: Solid | Lab File ID: 1AG03031.D

Analysis Method: 8270C LL | Date Collected: 06/24/2013 14:24

Extract. Method: 3546 | Date Extracted: 07/02/2013 07:50

Sample wt/vol: 15.29(g) | Date Analyzed: 07/03/2013 18:25

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 12.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139084 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	56		45	5.6
120-12-7	Anthracene	75		9.4	4.7
56-55-3	Benzo[a]anthracene	190		9.0	4.4
50-32-8	Benzo[a]pyrene	200		12	5.8
205-99-2	Benzo[b]fluoranthene	390		14	6.8
191-24-2	Benzo[g,h,i]perylene	91		22	4.9
207-08-9	Benzo[k]fluoranthene	110		9.0	4.0
218-01-9	Chrysene	270		10	5.1
53-70-3	Dibenz(a,h)anthracene	49		22	4.6
206-44-0	Fluoranthene	320		22	4.5
86-73-7	Fluorene	22	U	22	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	94		22	8.0
90-12-0	1-Methylnaphthalene	110		45	4.9
91-57-6	2-Methylnaphthalene	130		45	8.0
91-20-3	Naphthalene	130		45	4.9
85-01-8	Phenanthrene	200		9.0	4.4
129-00-0	Pyrene	230		22	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	39		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03031.D
Lab Smp Id: 680-91719-A-11-A Client Smp ID: CV1363G-CS
Inj Date : 03-JUL-2013 18:25
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-A-11-A
Misc Info : 680-91719-A-11-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.290	Weight Extracted
M	12.603	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.703	2.689	(1.000)	2974653	40.0000	
* 7 Acenaphthene-d10	164	3.745	3.725	(1.000)	1786910	40.0000	
* 11 Phenanthrene-d10	188	4.733	4.703	(1.000)	2991102	40.0000	(H)
$ 15 o-Terphenyl	230	5.021	4.996	(1.061)	243909	3.88298	290.5781(H)
* 19 Chrysene-d12	240	6.811	6.759	(1.000)	4252965	40.0000	(H)
* 24 Perylene-d12	264	7.928	7.860	(1.000)	3394694	40.0000	(H)
2 Naphthalene	128	2.714	2.705	(1.004)	131008	1.68678	126.2281
3 2-Methylnaphthalene	141	3.125	3.105	(1.156)	97884	1.79557	134.3689
4 1-Methylnaphthalene	142	3.178	3.164	(1.176)	94383	1.45041	108.5393
6 Acenaphthylene	152	3.654	3.634	(0.976)	77225	0.74573	55.8060
12 Phenanthrene	178	4.744	4.719	(1.002)	290114	2.66701	199.5824(H)
13 Anthracene	178	4.776	4.756	(1.009)	104016	0.99718	74.6225(H)
16 Fluoranthene	202	5.636	5.600	(1.191)	545572	4.24904	317.9714(H)
17 Pyrene	202	5.807	5.771	(0.853)	515778	3.00807	225.1053(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
18 Benzo(a)anthracene	228	6.800	6.743	(0.998)	380100	2.56042	191.6058(H)
20 Chrysene	228	6.827	6.781	(1.002)	494318	3.54847	265.5453(H)
21 Benzo(b)fluoranthene	252	7.639	7.577	(0.964)	554673	5.16249	386.3284(MH)
22 Benzo(k)fluoranthene	252	7.650	7.598	(0.965)	173672	1.44343	108.0173(QMH)
23 Benzo(a)pyrene	252	7.869	7.812	(0.993)	269388	2.68277	200.7619(H)
25 Indeno(1,2,3-cd)pyrene	276	8.820	8.715	(1.113)	112186	1.25155	93.6584(MH)
26 Dibenzo(a,h)anthracene	278	8.841	8.741	(1.115)	57589	0.64836	48.5191(H)
27 Benzo(g,h,i)perylene	276	9.087	8.966	(1.146)	116094	1.21627	91.0183(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG03031.D

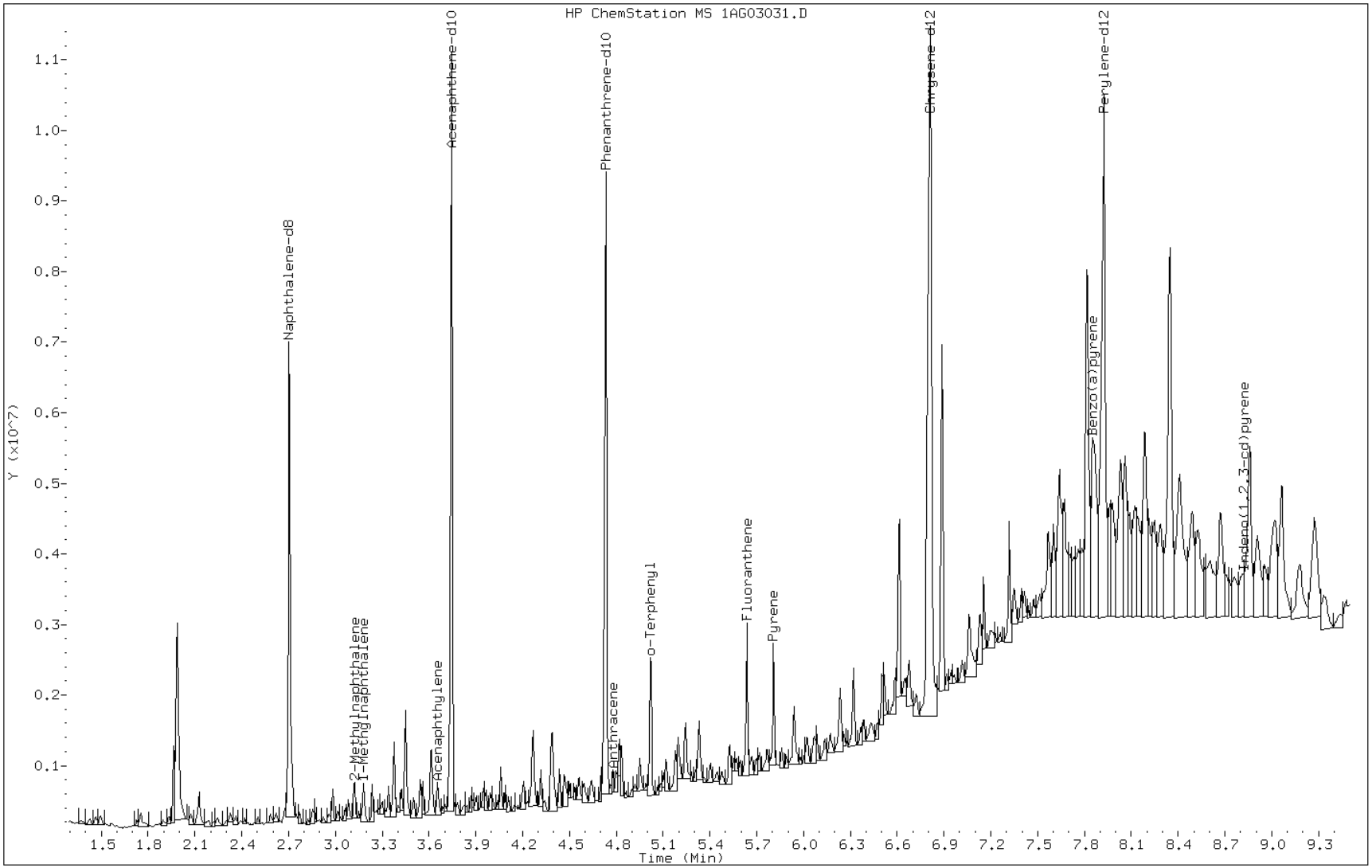
Date: 03-JUL-2013 18:25

Client ID: CV1363G-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-11-A

Operator: SCC



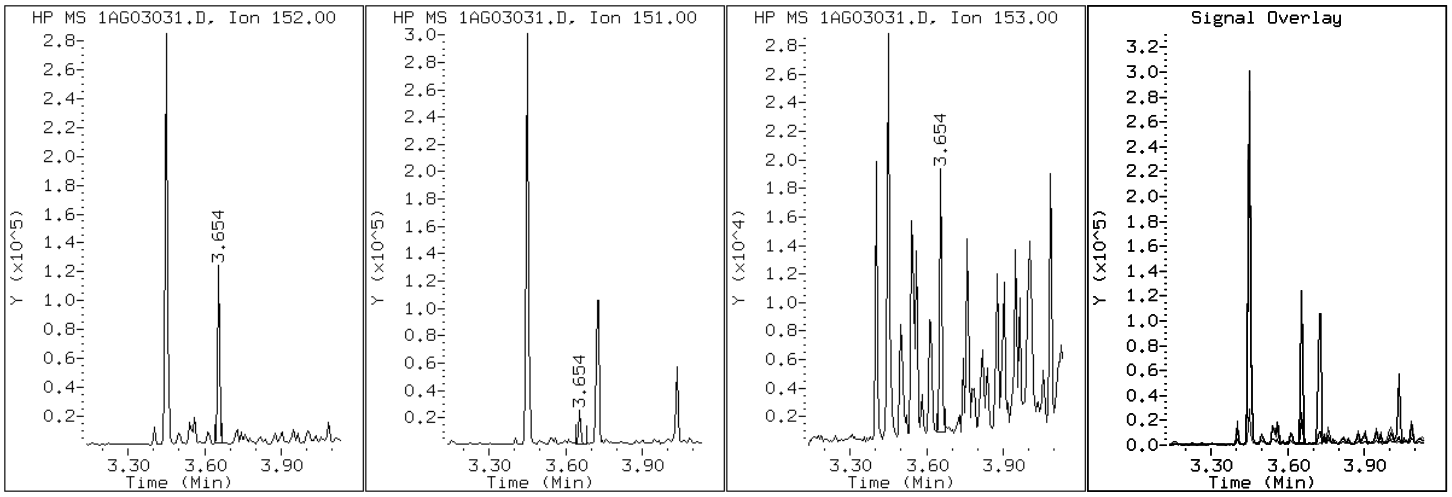
Data File: 1AG03031.D

Date: 03-JUL-2013 18:25

Client ID: CV1363G-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-11-A Operator: SCC

6 Acenaphthylene



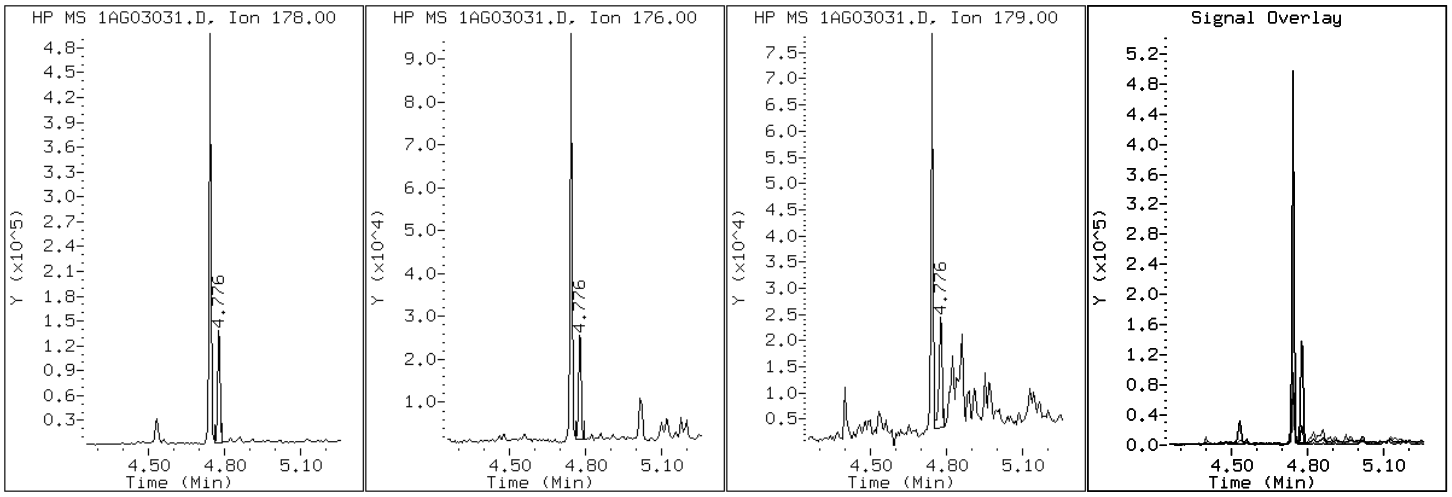
Data File: 1AG03031.D

Date: 03-JUL-2013 18:25

Client ID: CV1363G-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-11-A Operator: SCC

13 Anthracene



Data File: 1AG03031.D

Date: 03-JUL-2013 18:25

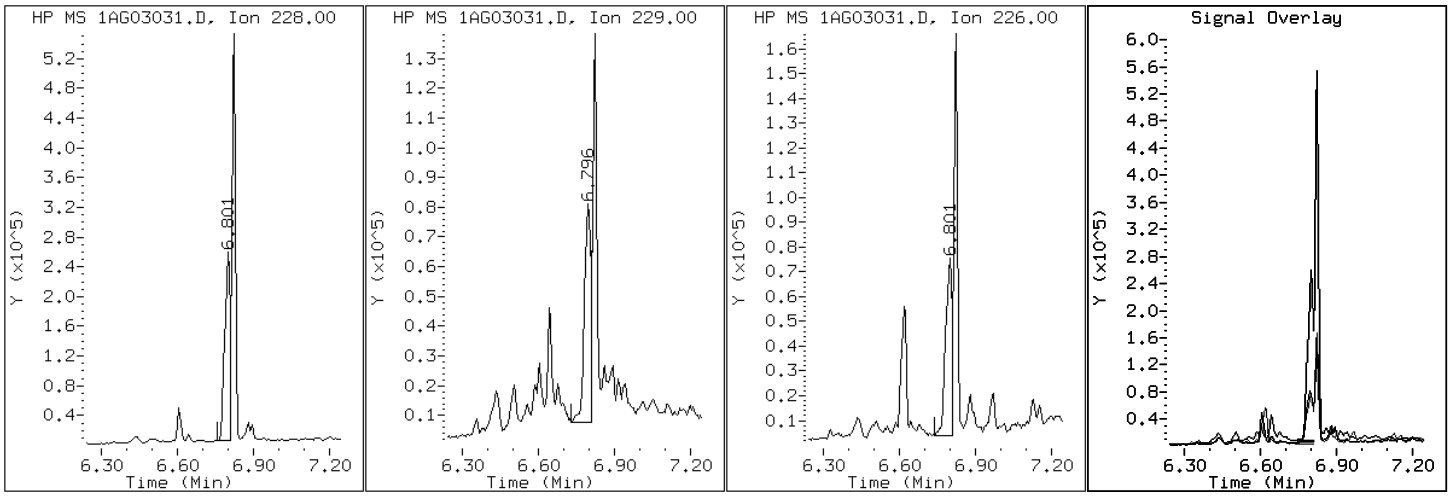
Client ID: CV1363G-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-11-A

Operator: SCC

18 Benzo(a)anthracene



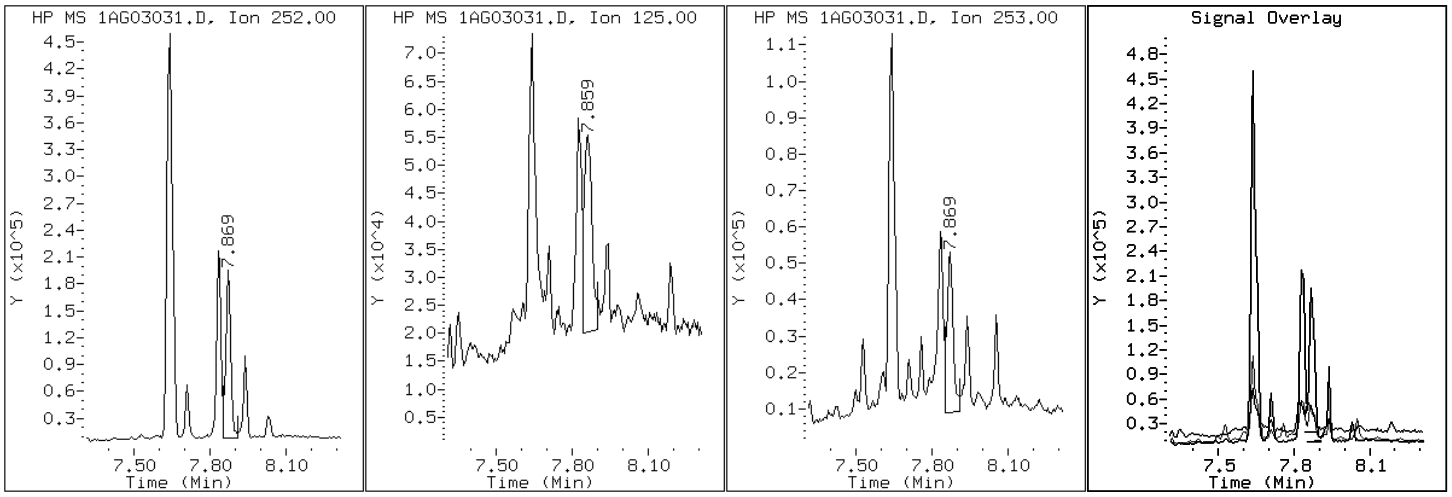
Data File: 1AG03031.D

Date: 03-JUL-2013 18:25

Client ID: CV1363G-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-11-A Operator: SCC

23 Benzo(a)pyrene



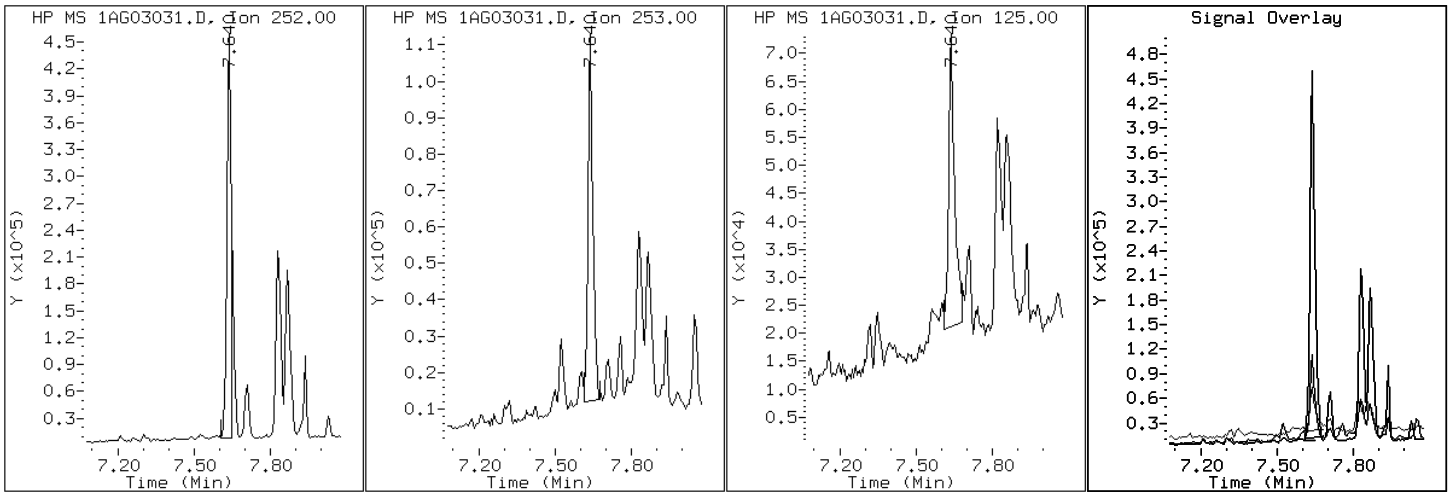
Data File: 1AG03031.D

Date: 03-JUL-2013 18:25

Client ID: CV1363G-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-11-A Operator: SCC

21 Benzo(b)fluoranthene



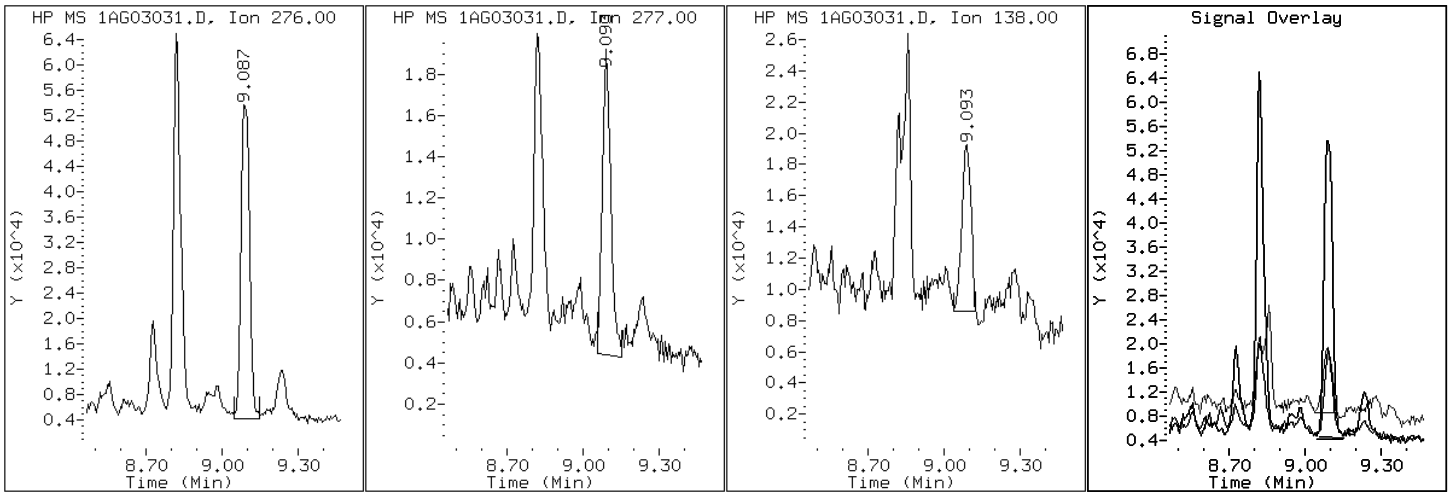
Data File: 1AG03031.D

Date: 03-JUL-2013 18:25

Client ID: CV1363G-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-11-A Operator: SCC

27 Benzo(g,h,i)perylene



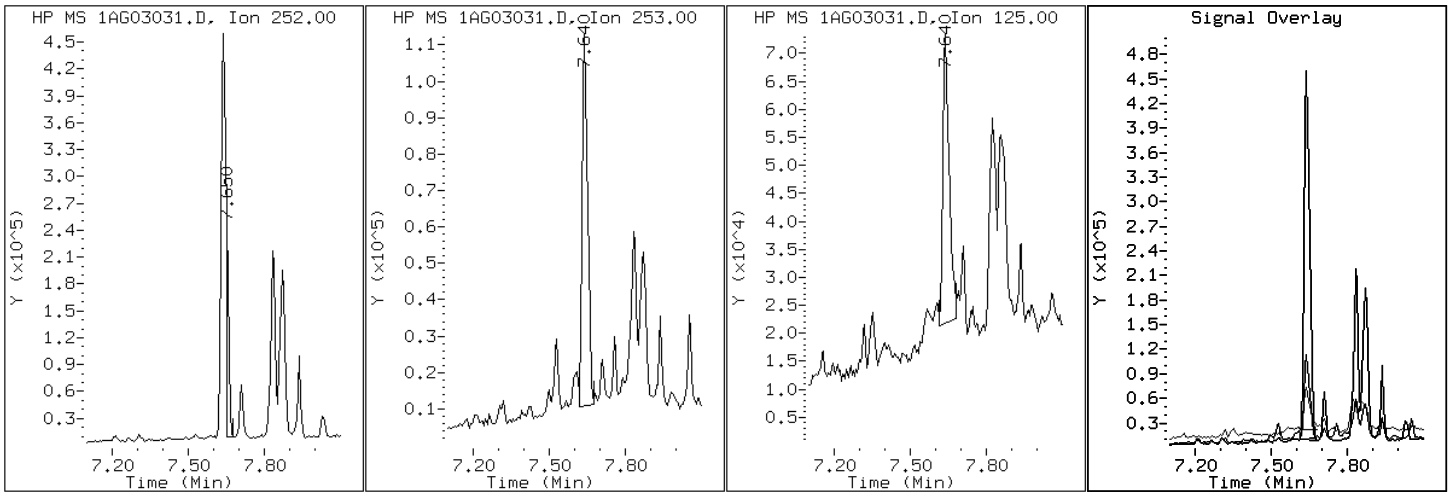
Data File: 1AG03031.D

Date: 03-JUL-2013 18:25

Client ID: CV1363G-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-11-A Operator: SCC

22 Benzo(k)fluoranthene



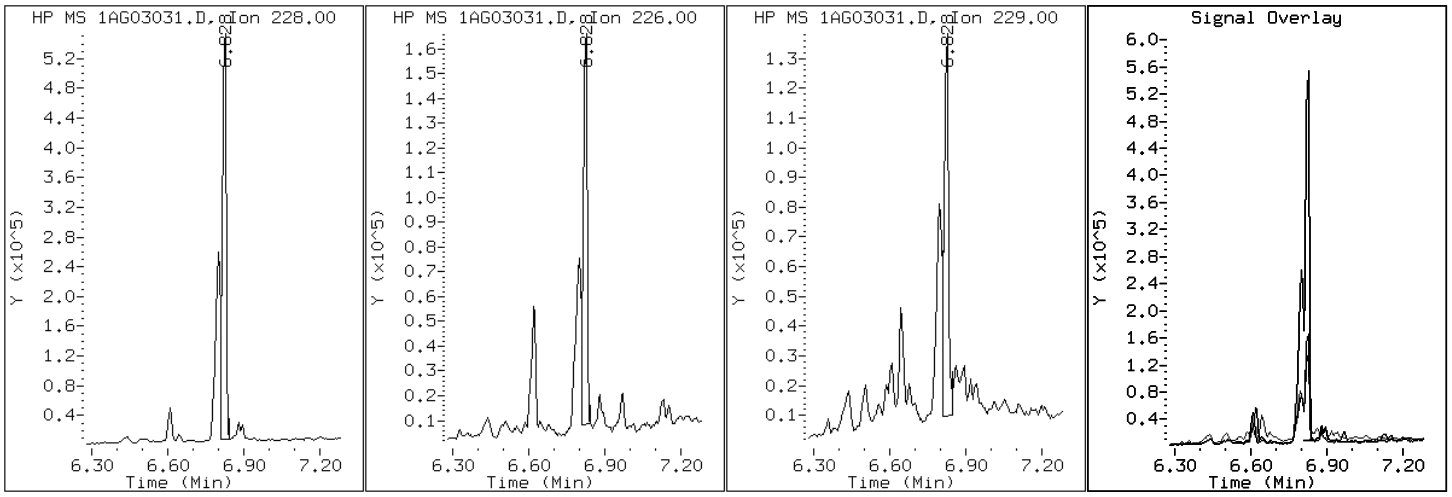
Data File: 1AG03031.D

Date: 03-JUL-2013 18:25

Client ID: CV1363G-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-11-A Operator: SCC

20 Chrysene



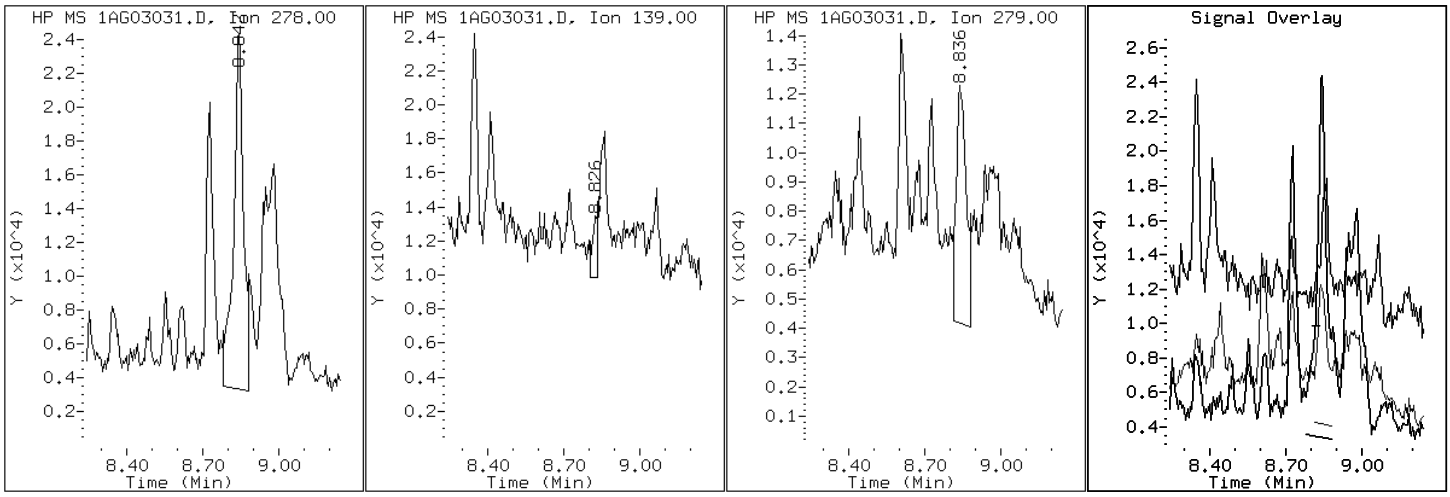
Data File: 1AG03031.D

Date: 03-JUL-2013 18:25

Client ID: CV1363G-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-11-A Operator: SCC

26 Dibenzo(a,h)anthracene



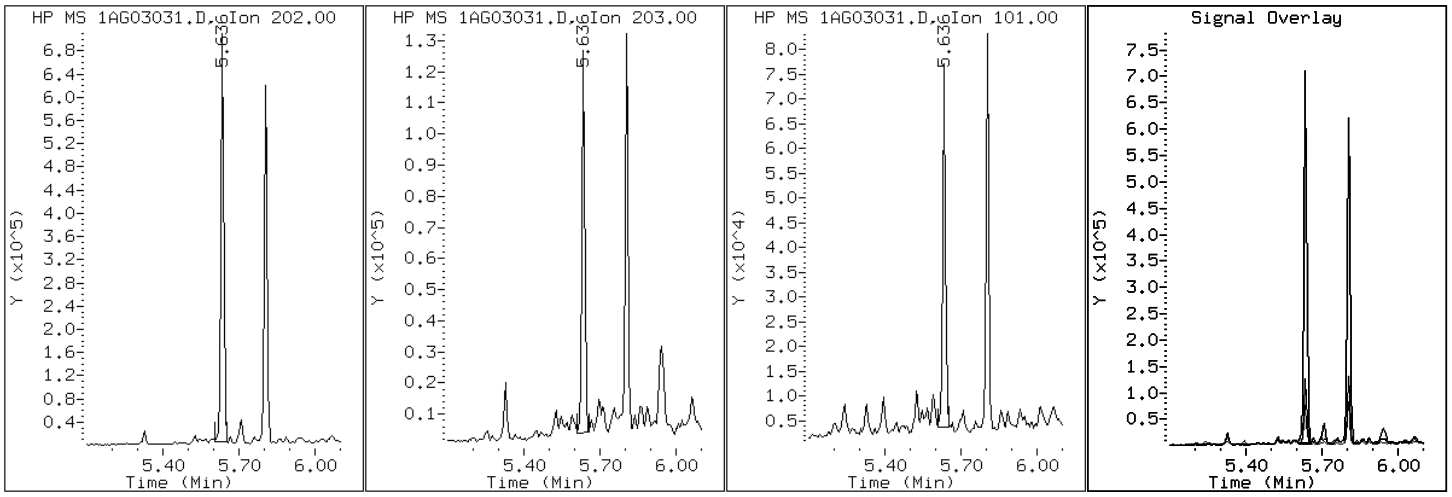
Data File: 1AG03031.D

Date: 03-JUL-2013 18:25

Client ID: CV1363G-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-11-A Operator: SCC

16 Fluoranthene



Data File: 1AG03031.D

Date: 03-JUL-2013 18:25

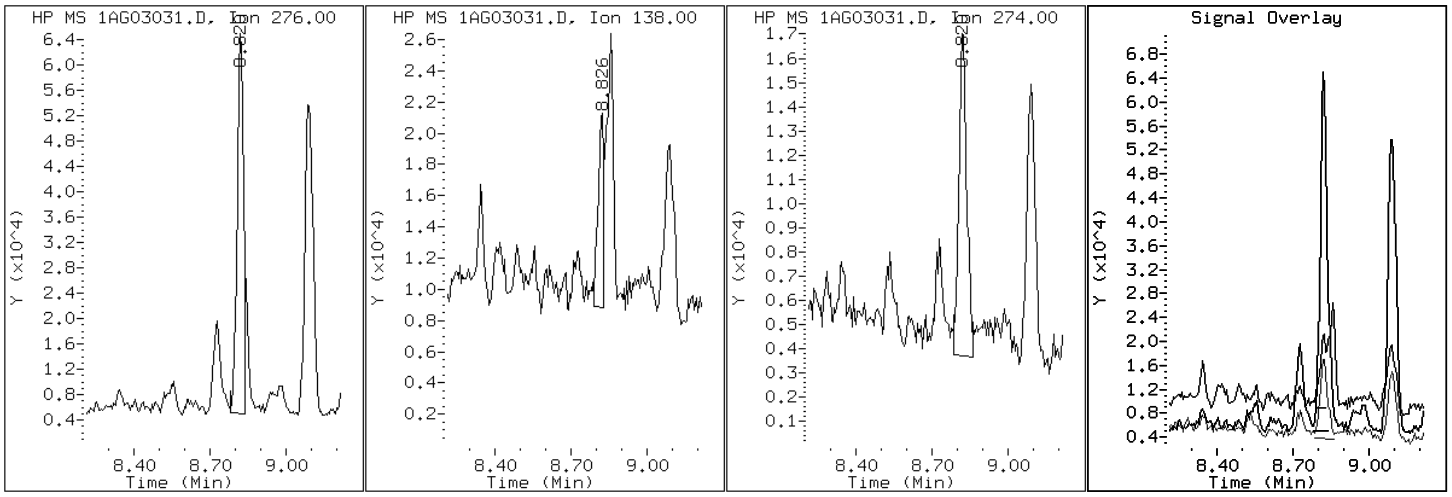
Client ID: CV1363G-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-11-A

Operator: SCC

25 Indeno(1,2,3-cd)pyrene



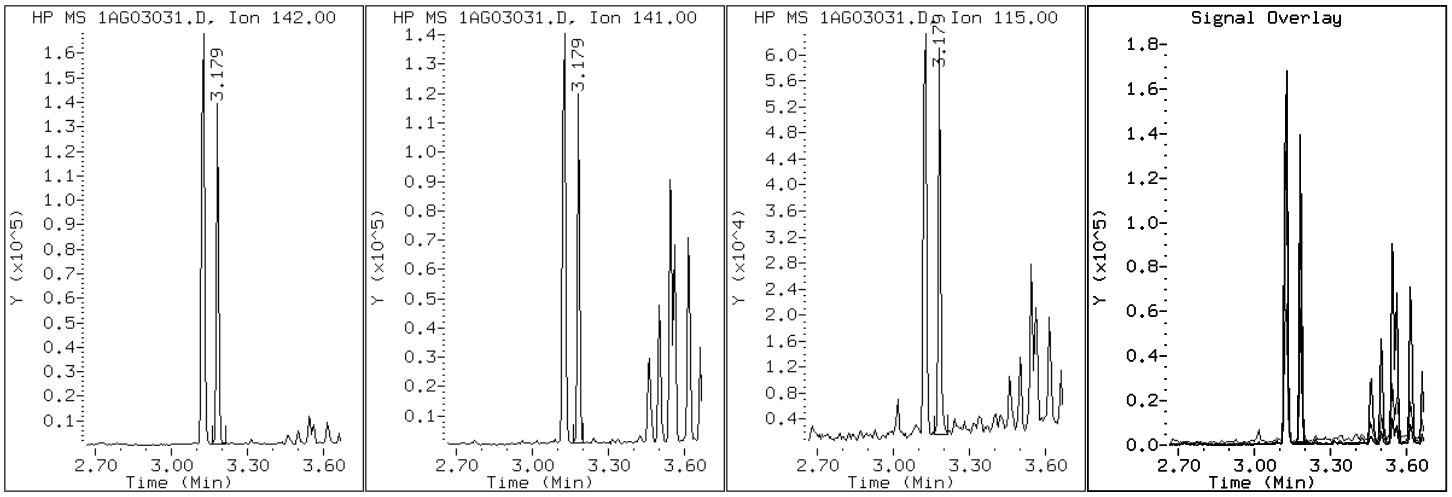
Data File: 1AG03031.D

Date: 03-JUL-2013 18:25

Client ID: CV1363G-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-11-A Operator: SCC

4 1-Methylnaphthalene



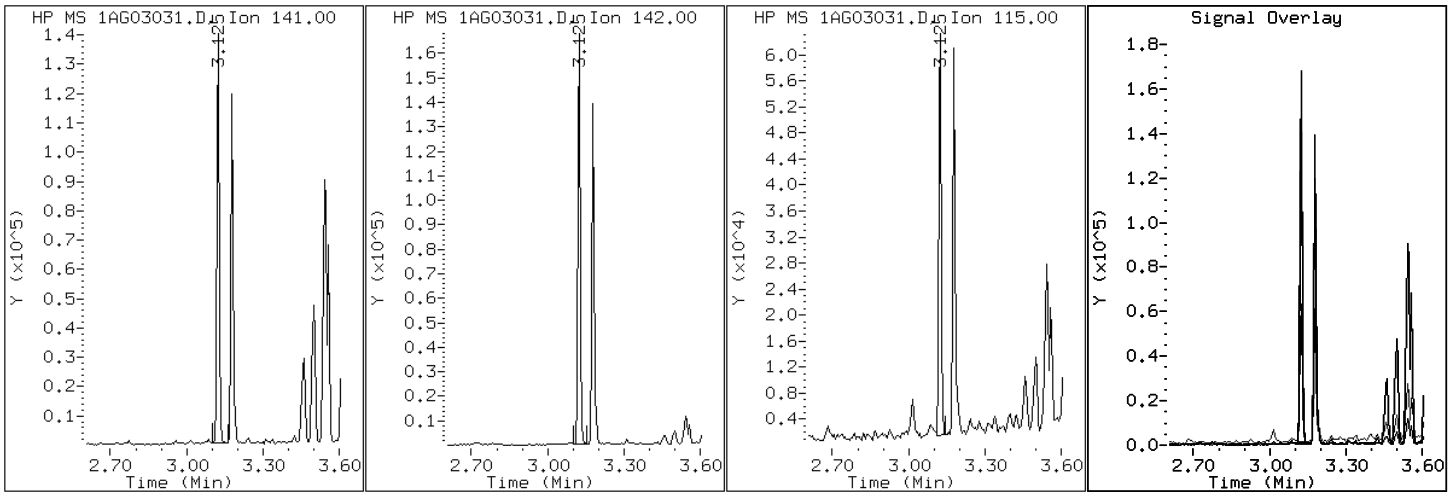
Data File: 1AG03031.D

Date: 03-JUL-2013 18:25

Client ID: CV1363G-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-11-A Operator: SCC

3 2-Methylnaphthalene



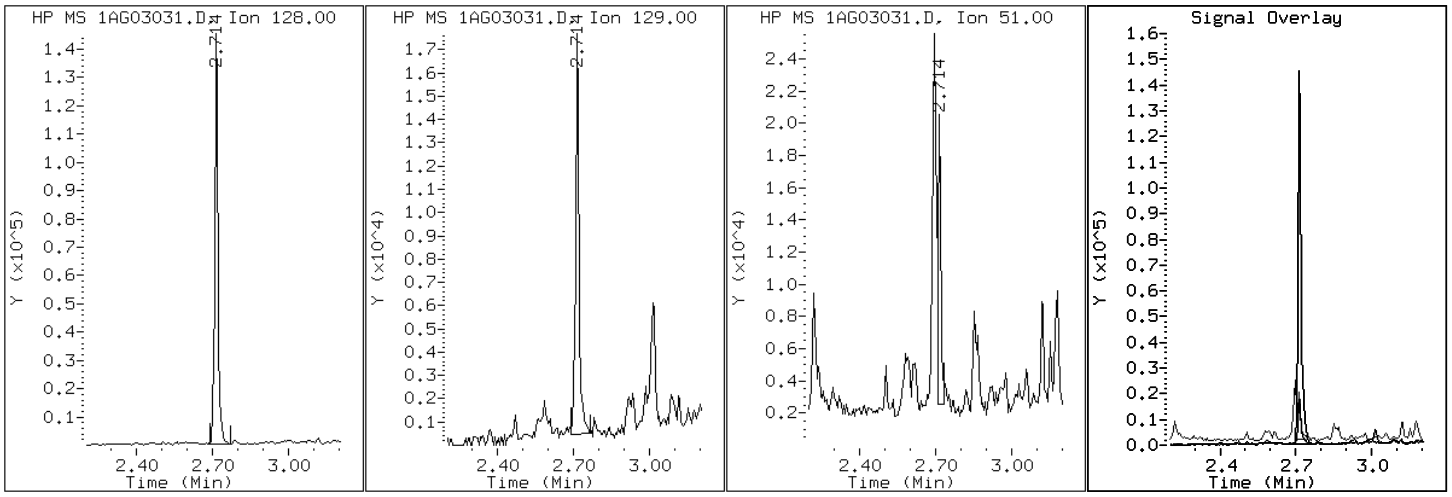
Data File: 1AG03031.D

Date: 03-JUL-2013 18:25

Client ID: CV1363G-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-11-A Operator: SCC

2 Naphthalene



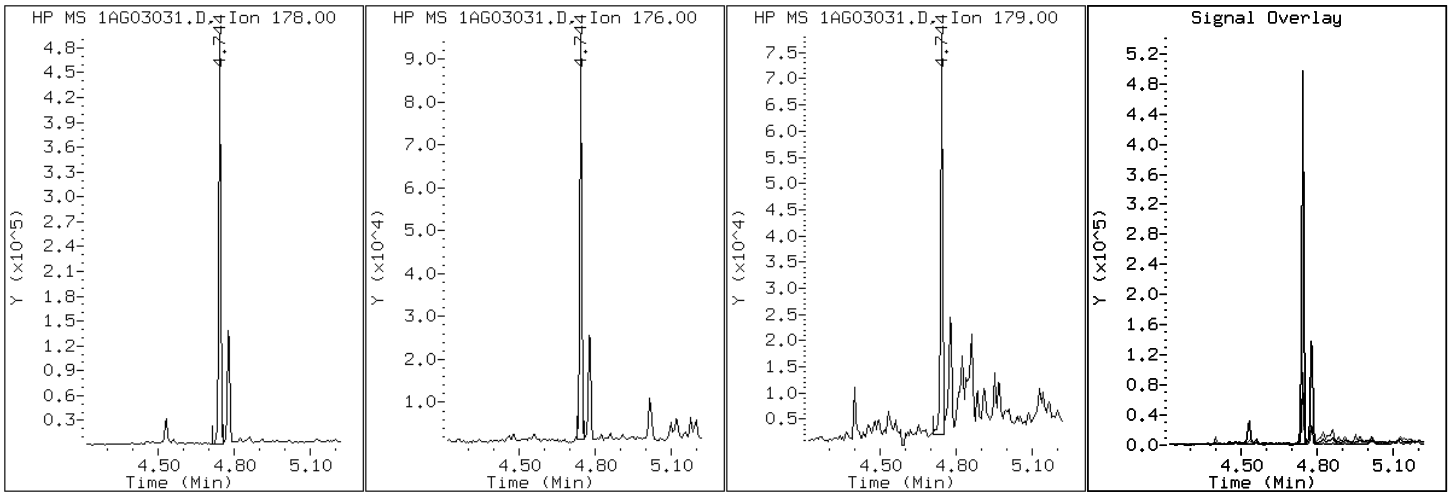
Data File: 1AG03031.D

Date: 03-JUL-2013 18:25

Client ID: CV1363G-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-11-A Operator: SCC

12 Phenanthrene



Data File: 1AG03031.D

Date: 03-JUL-2013 18:25

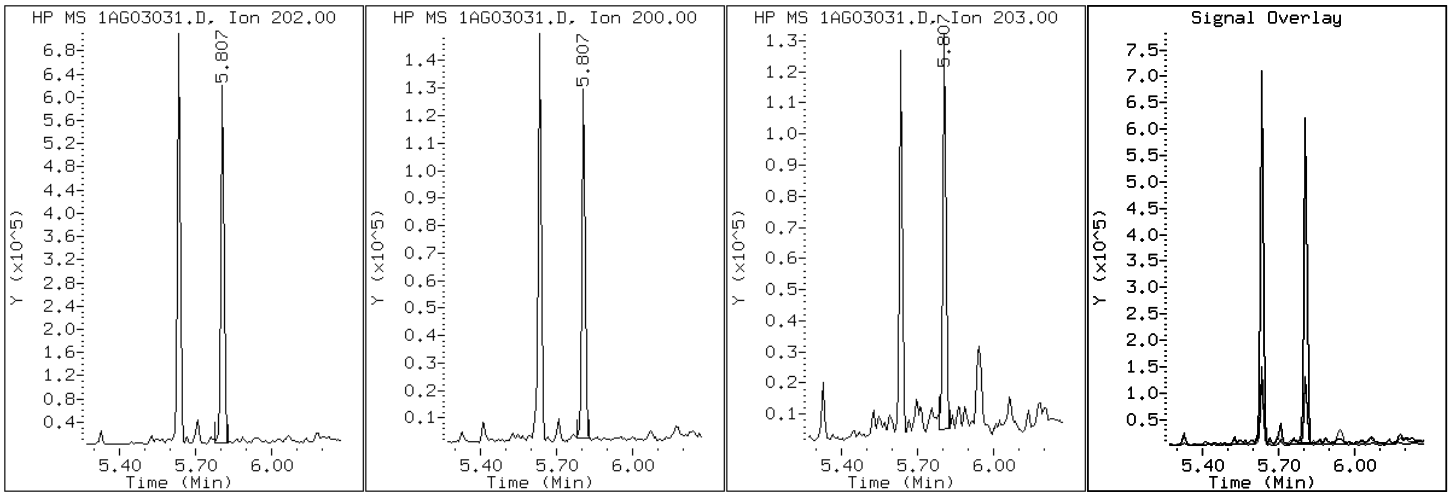
Client ID: CV1363G-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-11-A

Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG03031.D
Inj. Date and Time: 03-JUL-2013 18:25
Instrument ID: BSMA5973.i
Client ID: CV1363G-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/08/2013

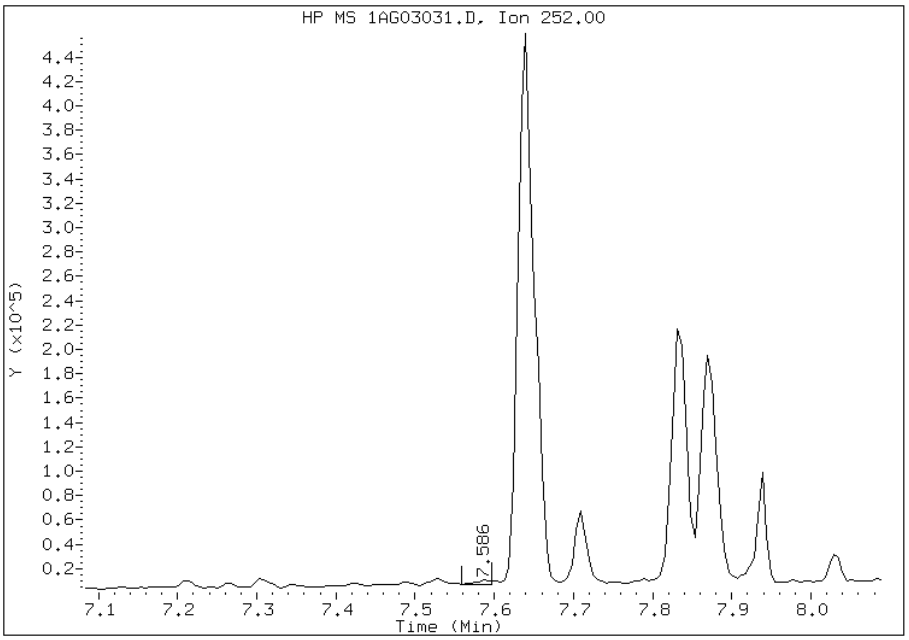
Processing Integration Results

RT: 7.59

Response: 4464

Amount: 0

Conc: 3



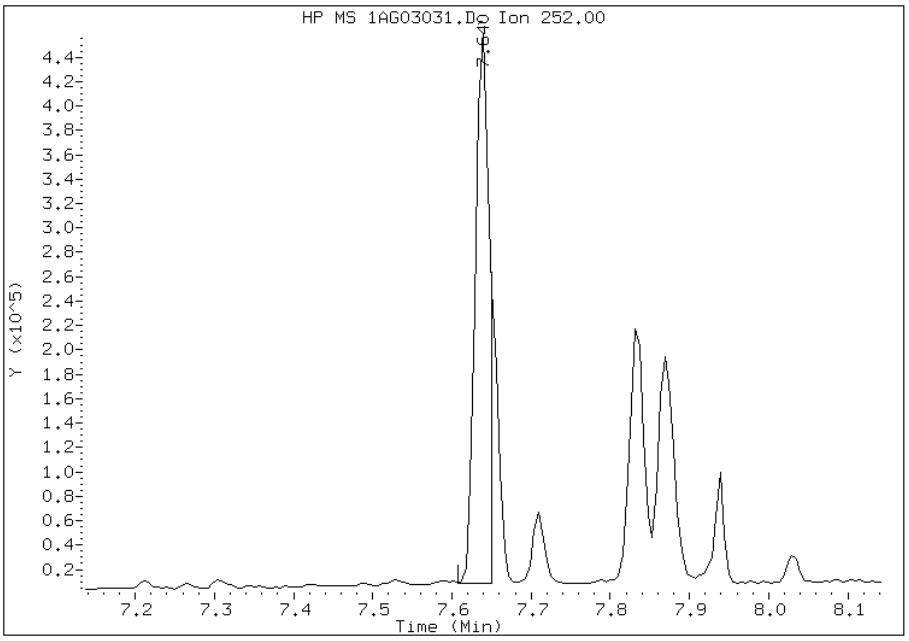
Manual Integration Results

RT: 7.64

Response: 554673

Amount: 5

Conc: 386



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:45
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG03031.D
Inj. Date and Time: 03-JUL-2013 18:25
Instrument ID: BSMA5973.i
Client ID: CV1363G-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/08/2013

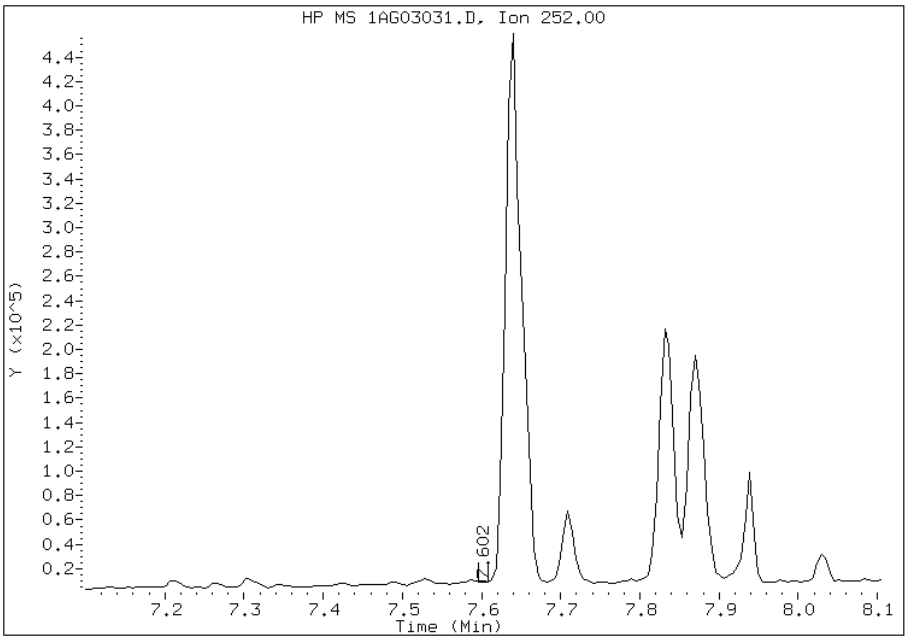
Processing Integration Results

RT: 7.60

Response: 849

Amount: 0

Conc: 14



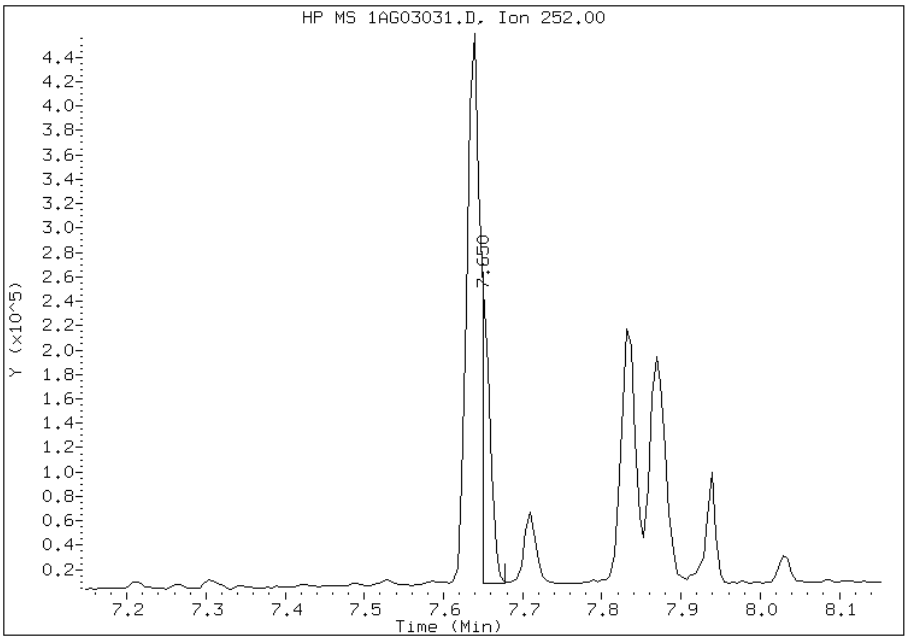
Manual Integration Results

RT: 7.65

Response: 173672

Amount: 1

Conc: 108



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG03031.D
Inj. Date and Time: 03-JUL-2013 18:25
Instrument ID: BSMA5973.i
Client ID: CV1363G-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

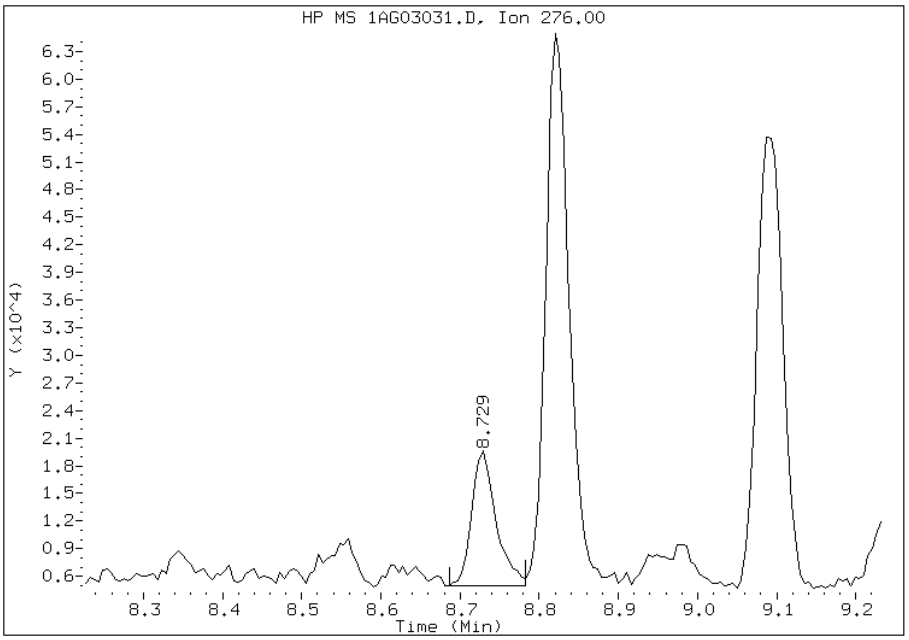
Processing Integration Results

RT: 8.73

Response: 30727

Amount: 0

Conc: 26



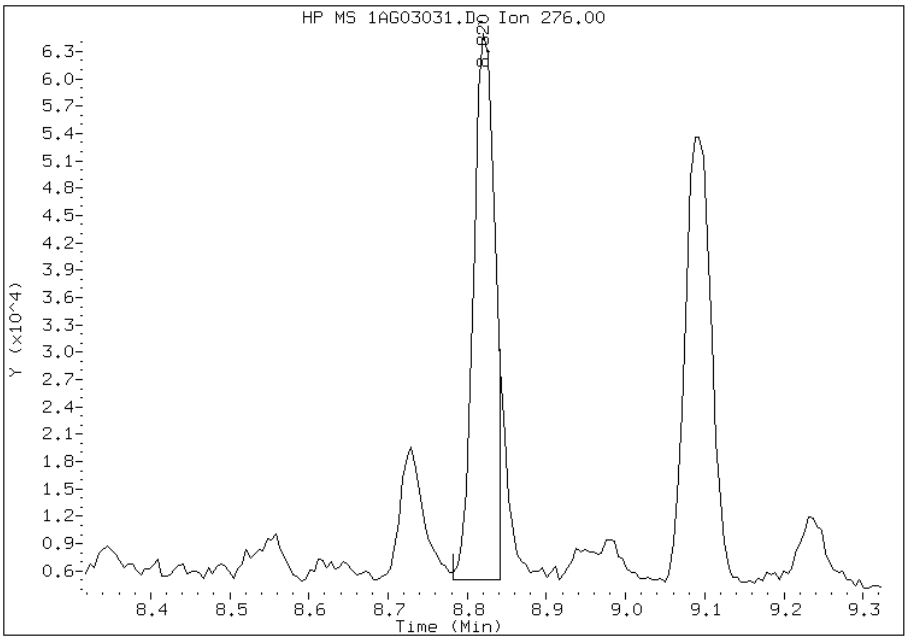
Manual Integration Results

RT: 8.82

Response: 112186

Amount: 1

Conc: 94



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:45
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363G-CSD | Lab Sample ID: 680-91719-12

Matrix: Solid | Lab File ID: 1AG03032.D

Analysis Method: 8270C LL | Date Collected: 06/24/2013 14:24

Extract. Method: 3546 | Date Extracted: 07/02/2013 07:50

Sample wt/vol: 14.98(g) | Date Analyzed: 07/03/2013 18:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139084 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	64		48	5.9
120-12-7	Anthracene	110		10	5.0
56-55-3	Benzo[a]anthracene	340		9.5	4.6
50-32-8	Benzo[a]pyrene	280		12	6.2
205-99-2	Benzo[b]fluoranthene	560		15	7.3
191-24-2	Benzo[g,h,i]perylene	110		24	5.2
207-08-9	Benzo[k]fluoranthene	150		9.5	4.3
218-01-9	Chrysene	360		11	5.3
53-70-3	Dibenz(a,h)anthracene	54		24	4.9
206-44-0	Fluoranthene	570		24	4.8
86-73-7	Fluorene	24	U	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	120		24	8.4
90-12-0	1-Methylnaphthalene	110		48	5.2
91-57-6	2-Methylnaphthalene	140		48	8.4
91-20-3	Naphthalene	150		48	5.2
85-01-8	Phenanthrene	330		9.5	4.6
129-00-0	Pyrene	380		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	45		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03032.D
Lab Smp Id: 680-91719-A-12-A Client Smp ID: CV1363G-CSD
Inj Date : 03-JUL-2013 18:40
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-A-12-A
Misc Info : 680-91719-A-12-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	15.766	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.706	2.689	(1.000)	2992720	40.0000	
* 7 Acenaphthene-d10	164	3.748	3.725	(1.000)	1812580	40.0000	
* 11 Phenanthrene-d10	188	4.737	4.703	(1.000)	2944663	40.0000	
$ 15 o-Terphenyl	230	5.020	4.996	(1.060)	272778	4.45726	353.2381
* 19 Chrysene-d12	240	6.815	6.759	(1.000)	4146005	40.0000	(H)
* 24 Perylene-d12	264	7.926	7.860	(1.000)	3182146	40.0000	(H)
2 Naphthalene	128	2.717	2.705	(1.004)	145296	1.85945	147.3615
3 2-Methylnaphthalene	141	3.123	3.105	(1.154)	95774	1.74770	138.5049
4 1-Methylnaphthalene	142	3.182	3.164	(1.176)	91900	1.40526	111.3668
6 Acenaphthylene	152	3.657	3.634	(0.976)	87496	0.80722	63.9718
12 Phenanthrene	178	4.747	4.719	(1.002)	436160	4.13259	327.5081
13 Anthracene	178	4.779	4.756	(1.009)	154657	1.41712	112.3066
16 Fluoranthene	202	5.639	5.600	(1.191)	881555	7.24137	573.8792
17 Pyrene	202	5.810	5.771	(0.853)	803456	4.80673	380.9335(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
18 Benzo(a)anthracene	228	6.804	6.743	(0.998)	603617	4.23169	335.3614(H)
20 Chrysene	228	6.831	6.781	(1.002)	617766	4.54905	360.5125(H)
21 Benzo(b)fluoranthene	252	7.643	7.577	(0.964)	715817	7.10730	563.2539(MH)
22 Benzo(k)fluoranthene	252	7.653	7.598	(0.966)	219969	1.89967	150.5491(QMH)
23 Benzo(a)pyrene	252	7.872	7.812	(0.993)	335149	3.56061	282.1784(H)
25 Indeno(1,2,3-cd)pyrene	276	8.829	8.715	(1.114)	126492	1.50541	119.3036(MH)
26 Dibenzo(a,h)anthracene	278	8.845	8.741	(1.116)	56669	0.68062	53.9388(H)
27 Benzo(g,h,i)perylene	276	9.096	8.966	(1.148)	122694	1.37128	108.6739(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG03032.D

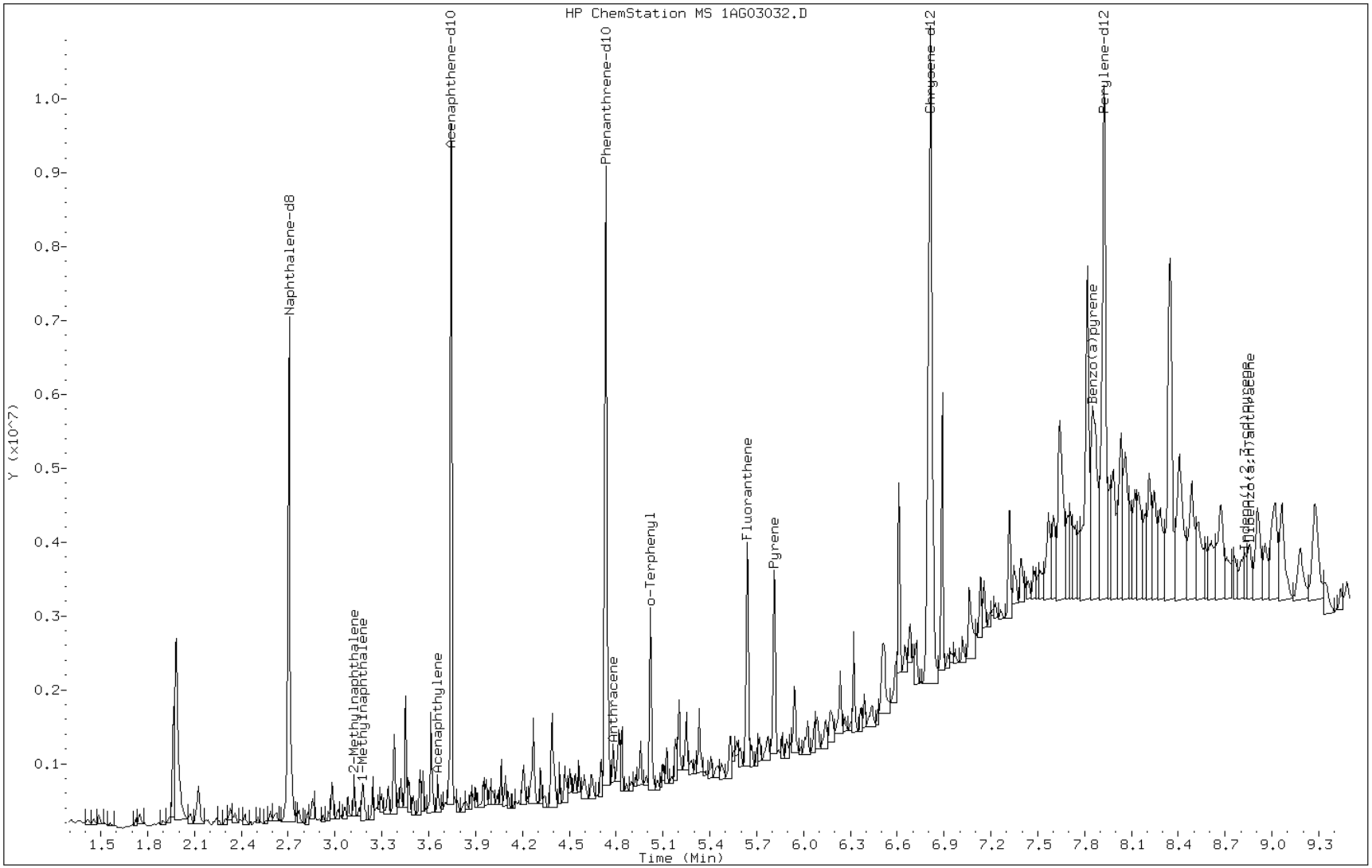
Date: 03-JUL-2013 18:40

Client ID: CV1363G-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-A-12-A

Operator: SCC



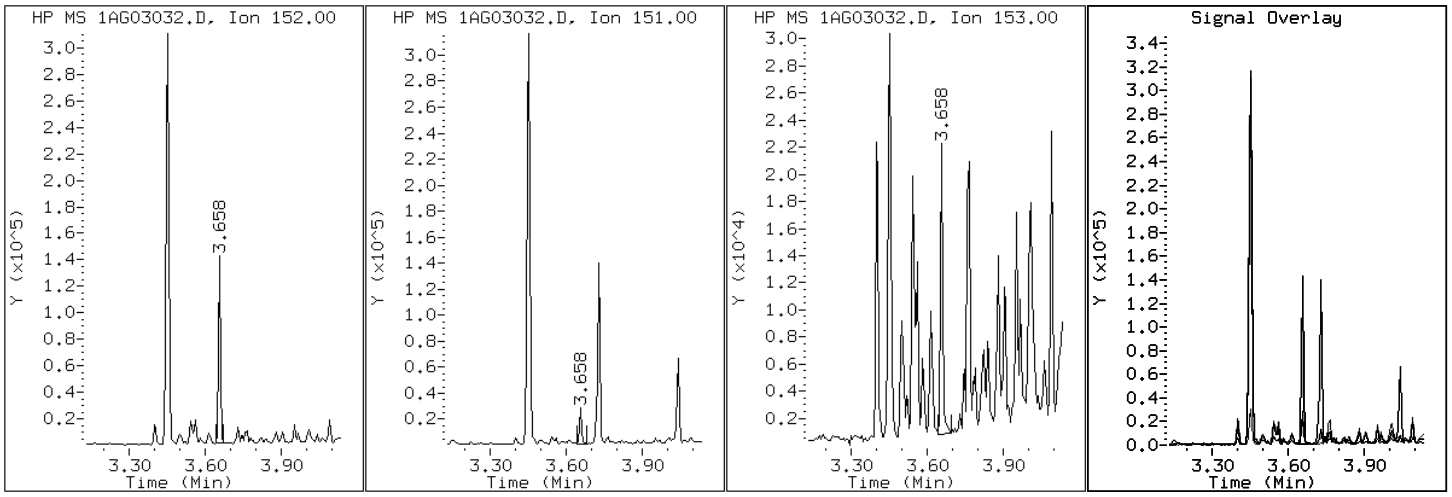
Data File: 1AG03032.D

Date: 03-JUL-2013 18:40

Client ID: CV1363G-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-12-A Operator: SCC

6 Acenaphthylene



Data File: 1AG03032.D

Date: 03-JUL-2013 18:40

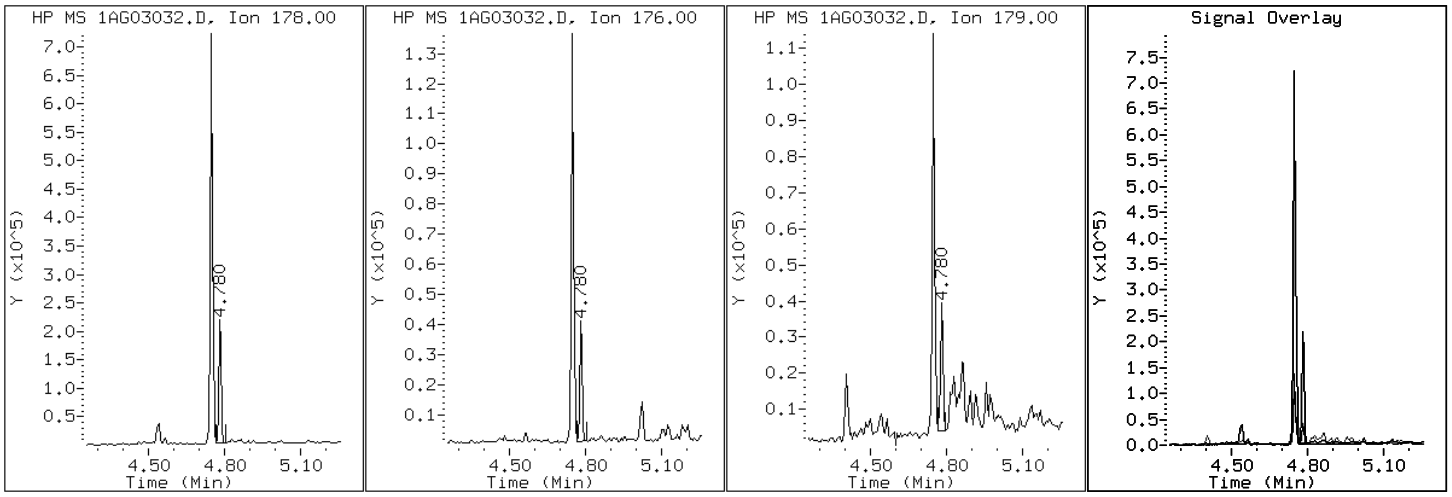
Client ID: CV1363G-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-A-12-A

Operator: SCC

13 Anthracene



Data File: 1AG03032.D

Date: 03-JUL-2013 18:40

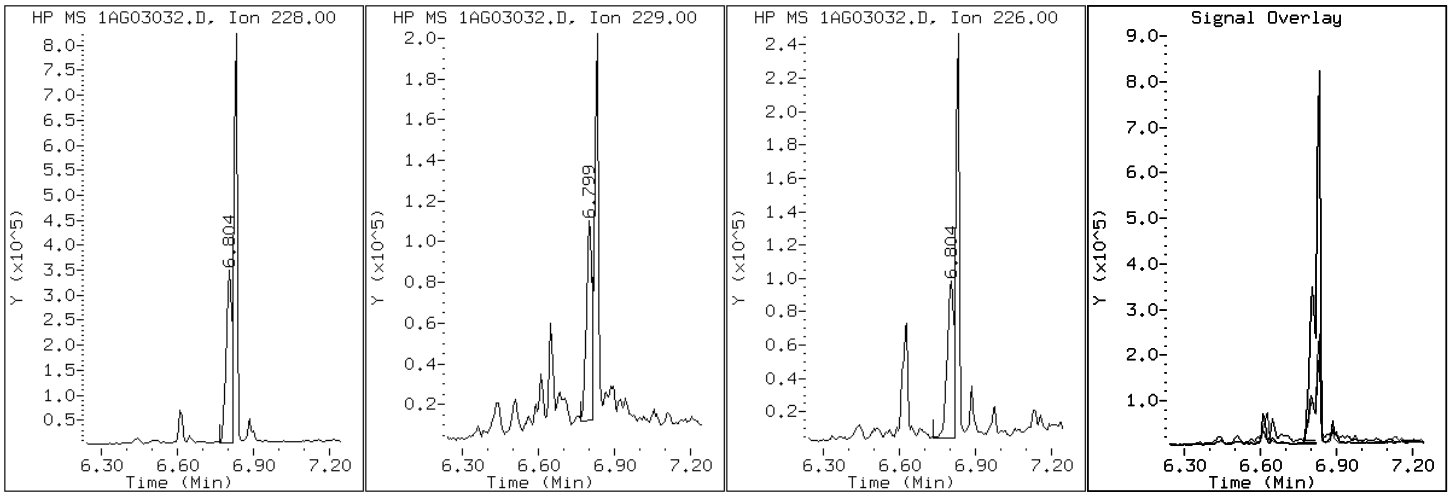
Client ID: CV1363G-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-A-12-A

Operator: SCC

18 Benzo(a)anthracene



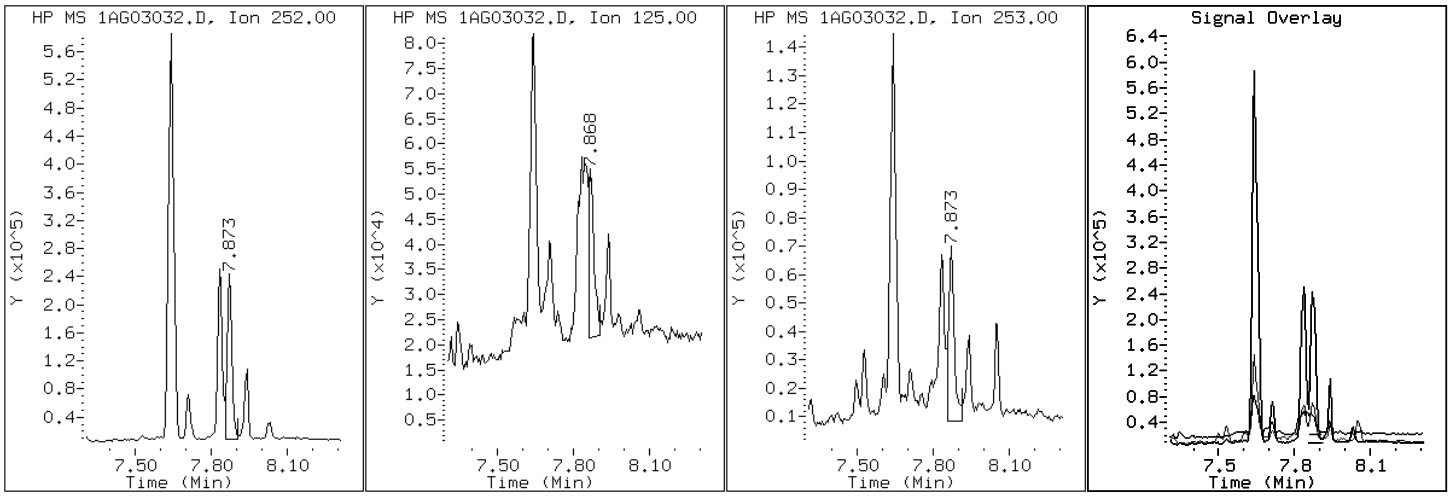
Data File: 1AG03032.D

Date: 03-JUL-2013 18:40

Client ID: CV1363G-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-12-A Operator: SCC

23 Benzo(a)pyrene



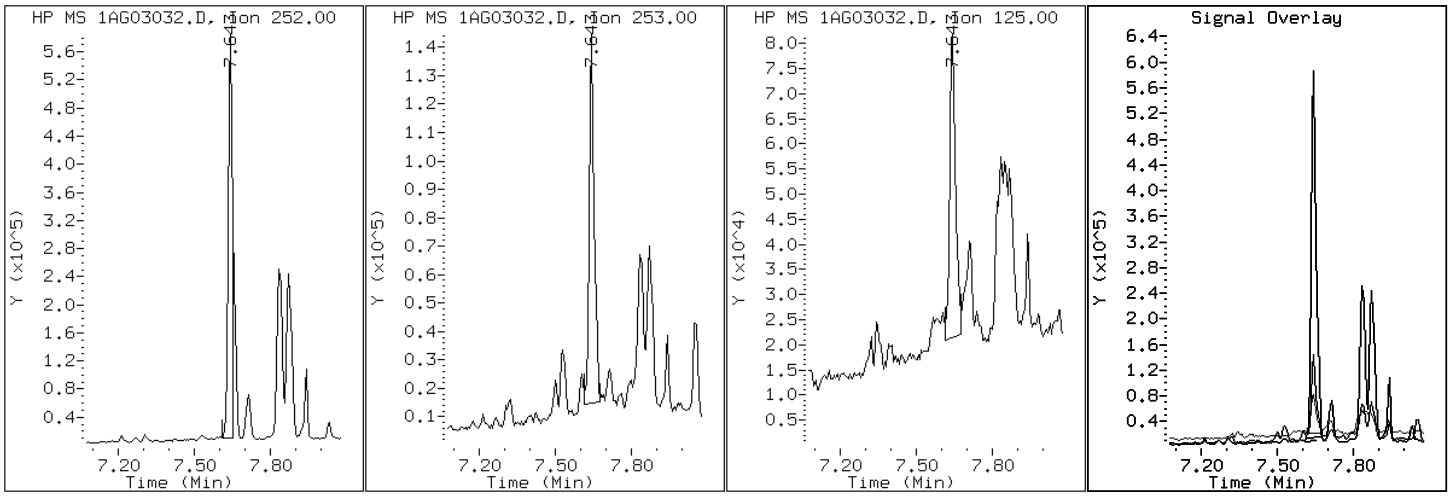
Data File: 1AG03032.D

Date: 03-JUL-2013 18:40

Client ID: CV1363G-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-12-A Operator: SCC

21 Benzo(b)fluoranthene



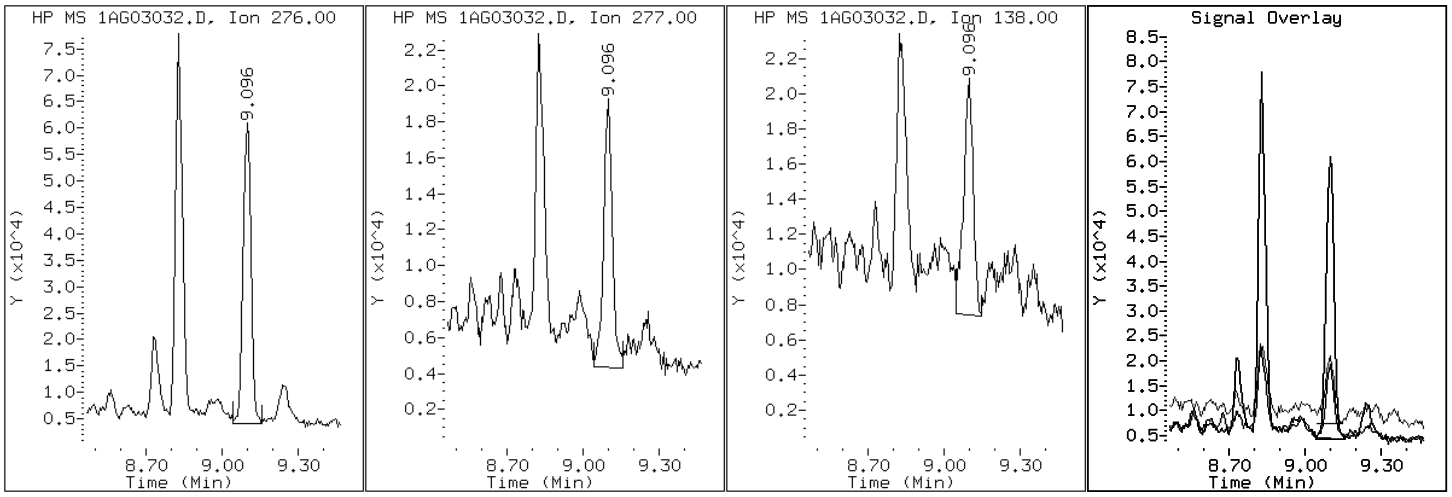
Data File: 1AG03032.D

Date: 03-JUL-2013 18:40

Client ID: CV1363G-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-12-A Operator: SCC

27 Benzo(g,h,i)perylene



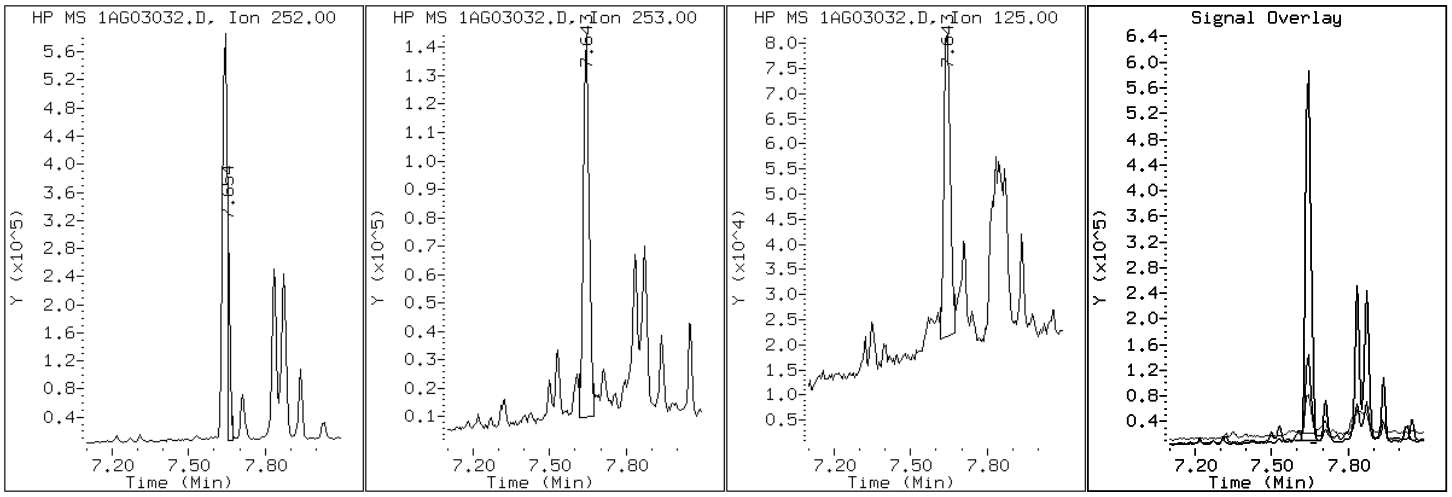
Data File: 1AG03032.D

Date: 03-JUL-2013 18:40

Client ID: CV1363G-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-12-A Operator: SCC

22 Benzo(k)fluoranthene



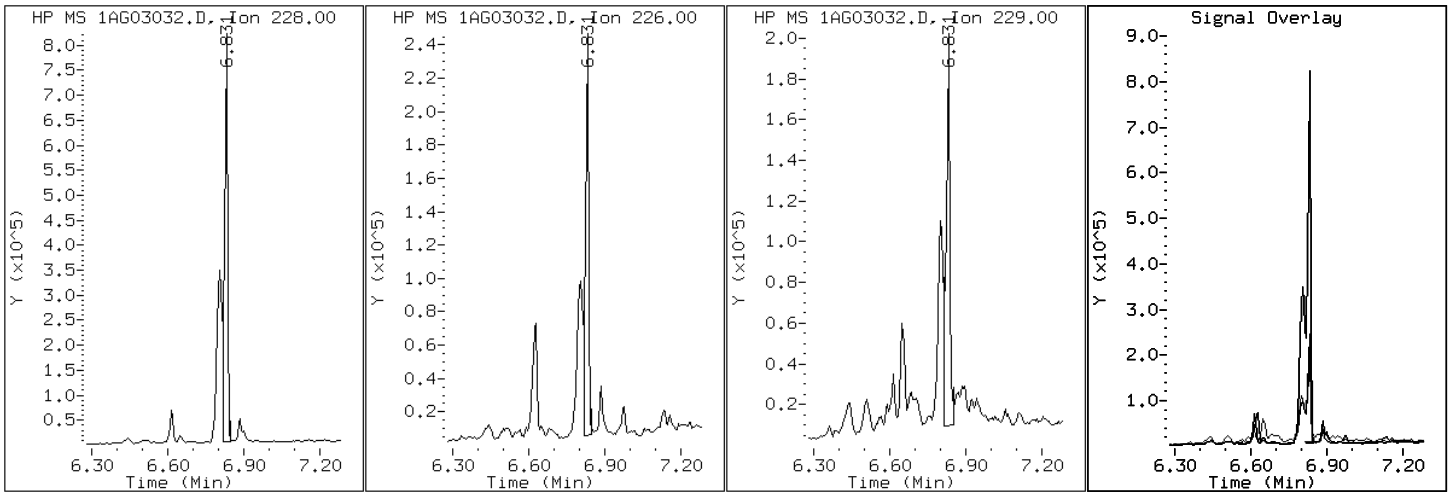
Data File: 1AG03032.D

Date: 03-JUL-2013 18:40

Client ID: CV1363G-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-12-A Operator: SCC

20 Chrysene



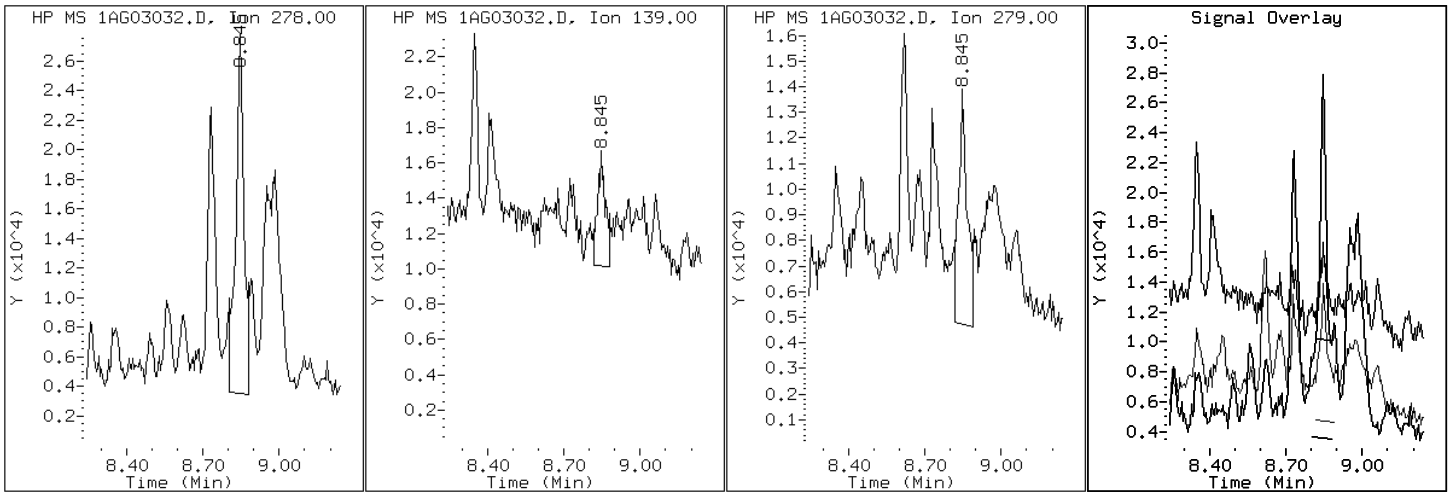
Data File: 1AG03032.D

Date: 03-JUL-2013 18:40

Client ID: CV1363G-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-12-A Operator: SCC

26 Dibenzo(a,h)anthracene



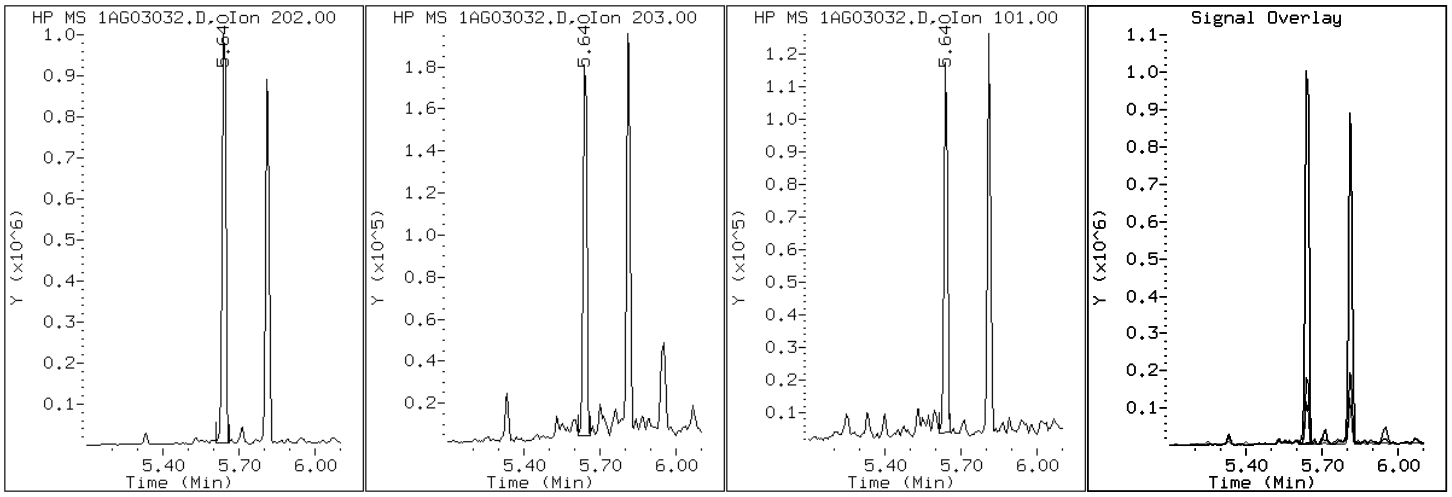
Data File: 1AG03032.D

Date: 03-JUL-2013 18:40

Client ID: CV1363G-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-12-A Operator: SCC

16 Fluoranthene



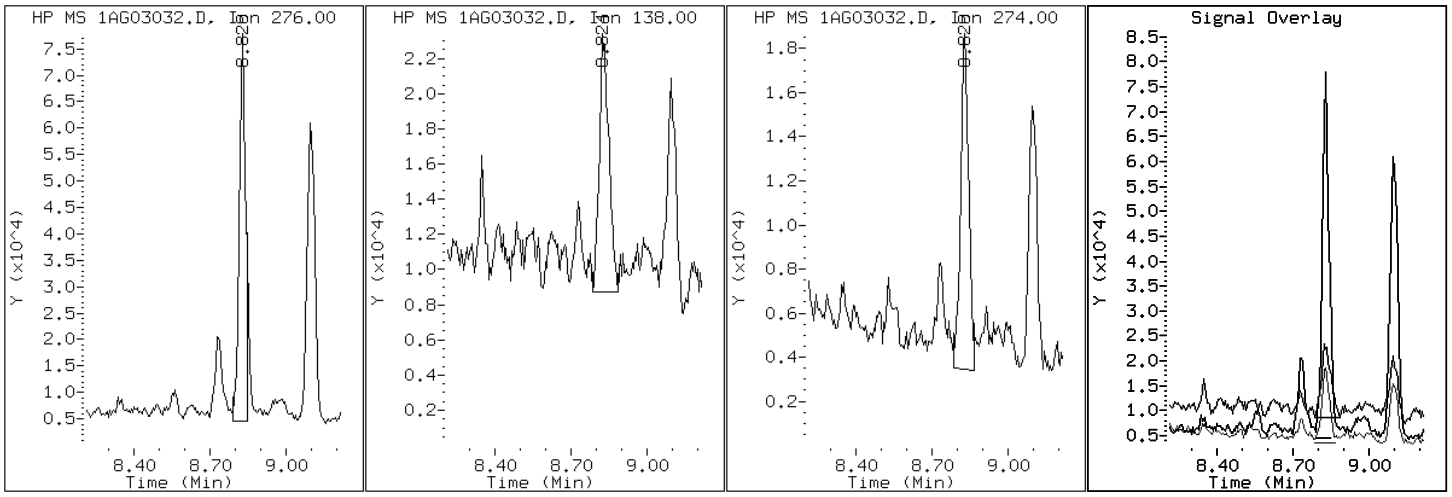
Data File: 1AG03032.D

Date: 03-JUL-2013 18:40

Client ID: CV1363G-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-12-A Operator: SCC

25 Indeno(1,2,3-cd)pyrene



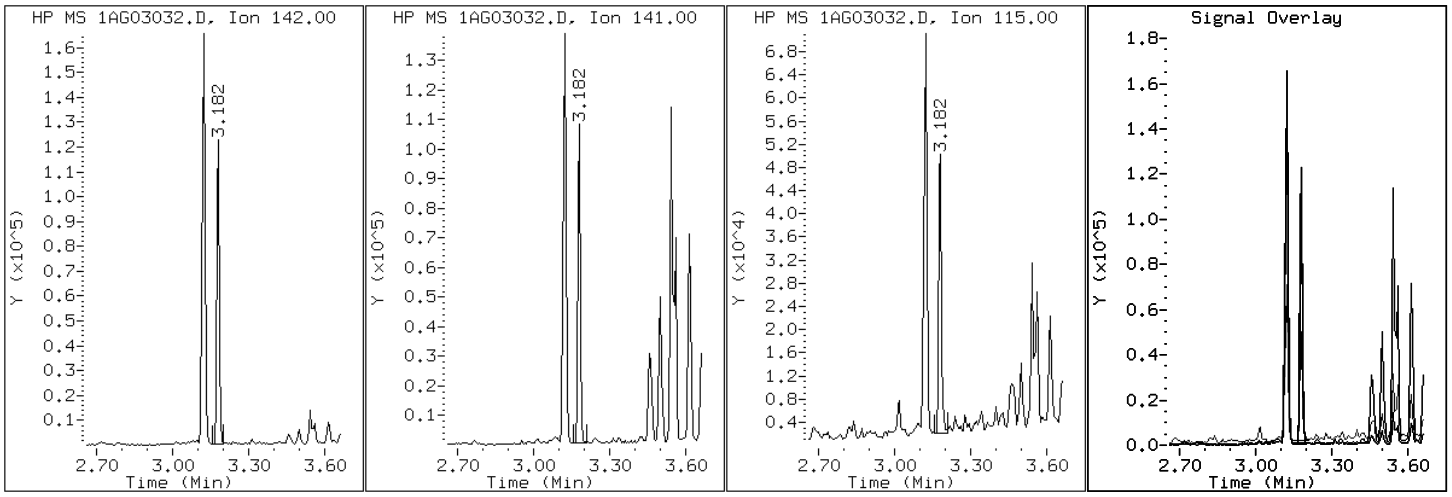
Data File: 1AG03032.D

Date: 03-JUL-2013 18:40

Client ID: CV1363G-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-12-A Operator: SCC

4 1-Methylnaphthalene



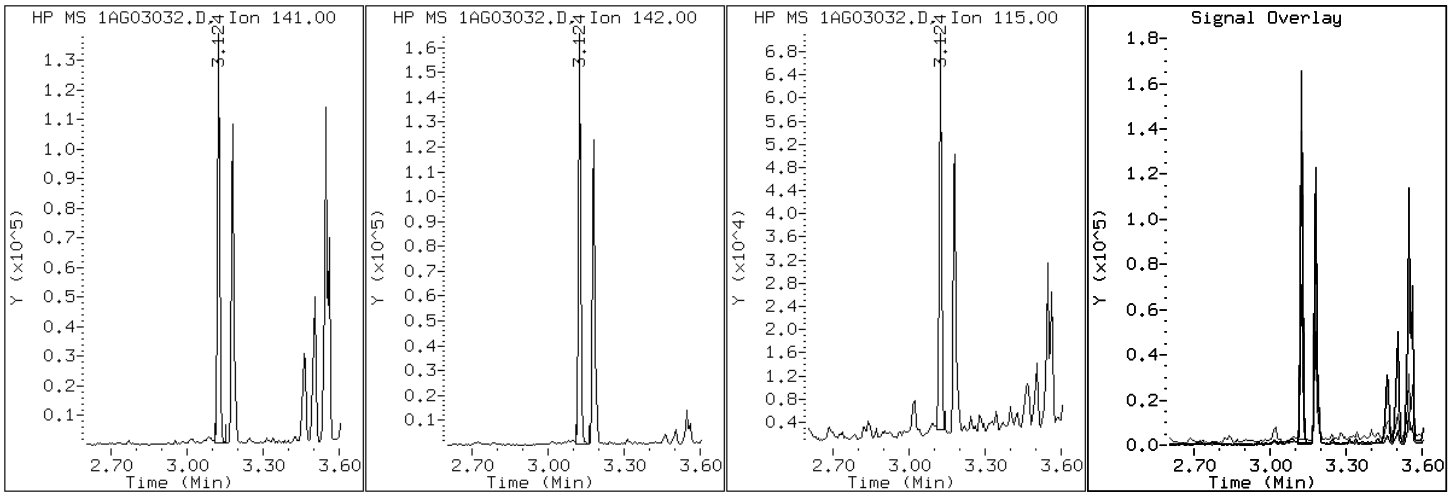
Data File: 1AG03032.D

Date: 03-JUL-2013 18:40

Client ID: CV1363G-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-12-A Operator: SCC

3 2-Methylnaphthalene



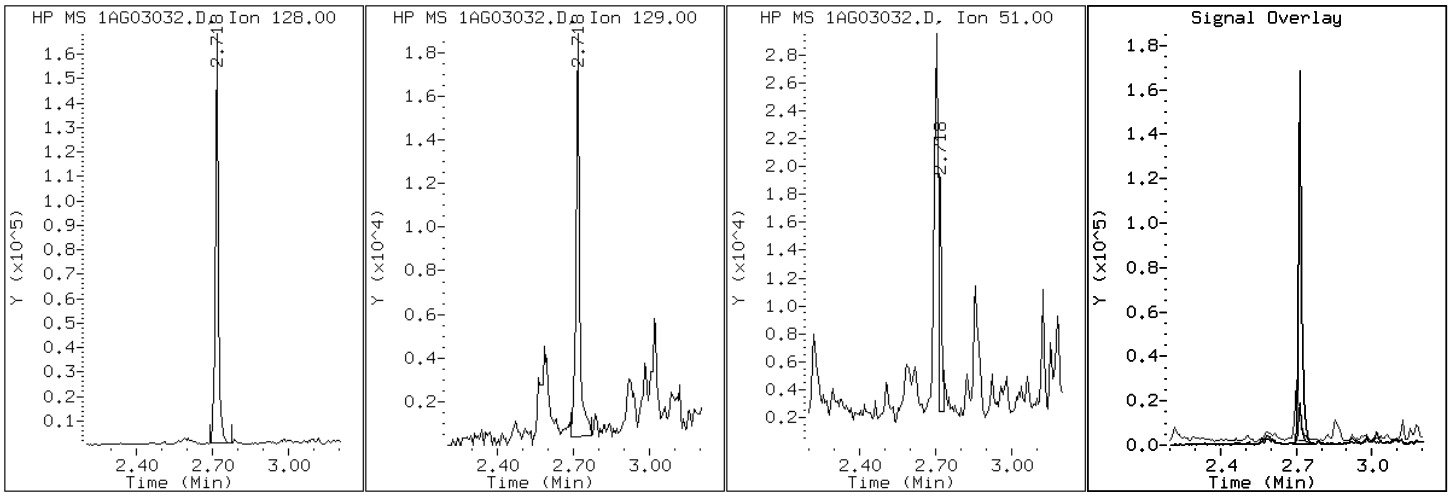
Data File: 1AG03032.D

Date: 03-JUL-2013 18:40

Client ID: CV1363G-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-12-A Operator: SCC

2 Naphthalene



Data File: 1AG03032.D

Date: 03-JUL-2013 18:40

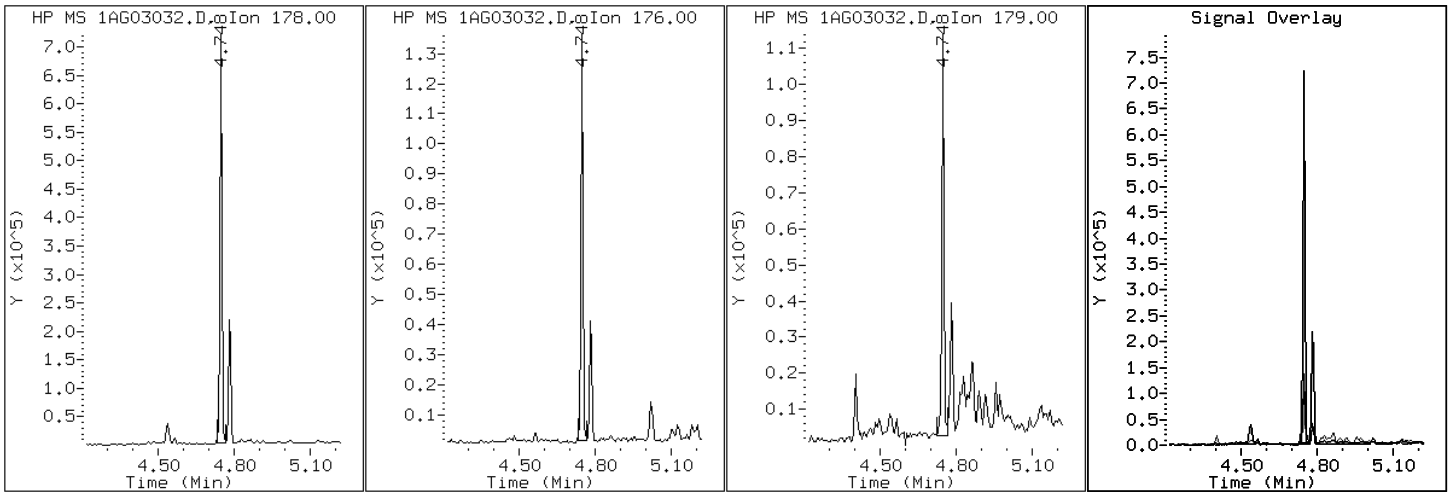
Client ID: CV1363G-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-A-12-A

Operator: SCC

12 Phenanthrene



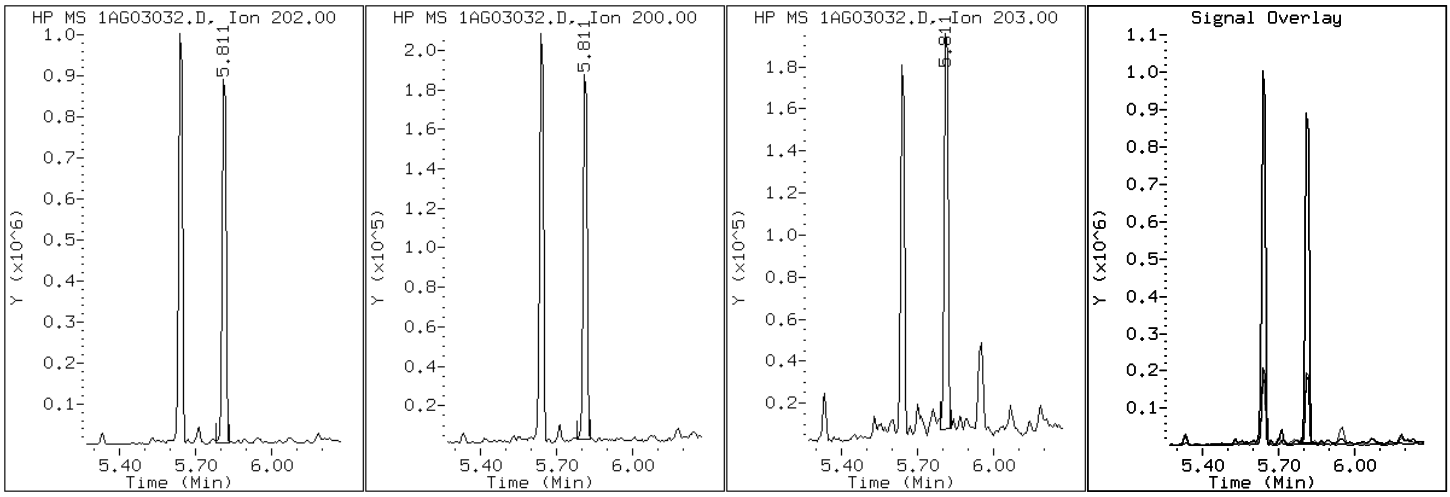
Data File: 1AG03032.D

Date: 03-JUL-2013 18:40

Client ID: CV1363G-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-12-A Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG03032.D
Inj. Date and Time: 03-JUL-2013 18:40
Instrument ID: BSMA5973.i
Client ID: CV1363G-CSD
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/08/2013

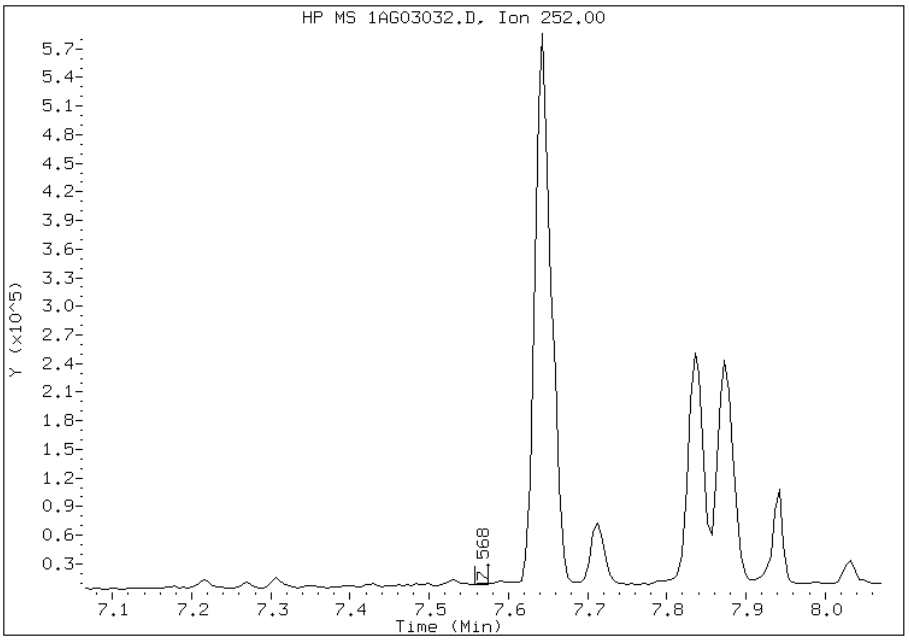
Processing Integration Results

RT: 7.57

Response: 1166

Amount: 0

Conc: 1



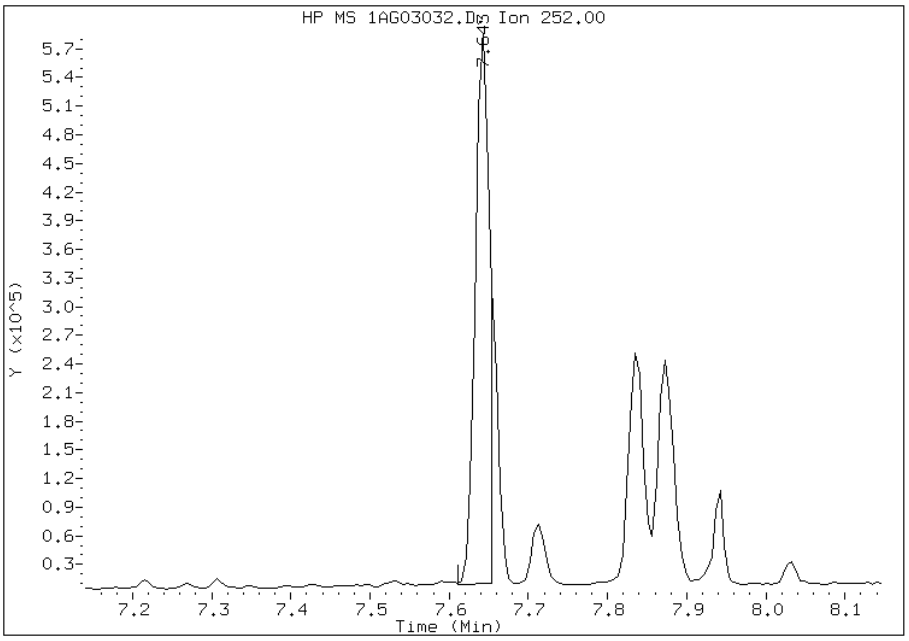
Manual Integration Results

RT: 7.64

Response: 715817

Amount: 7

Conc: 563



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:46
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG03032.D
Inj. Date and Time: 03-JUL-2013 18:40
Instrument ID: BSMA5973.i
Client ID: CV1363G-CSD
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/08/2013

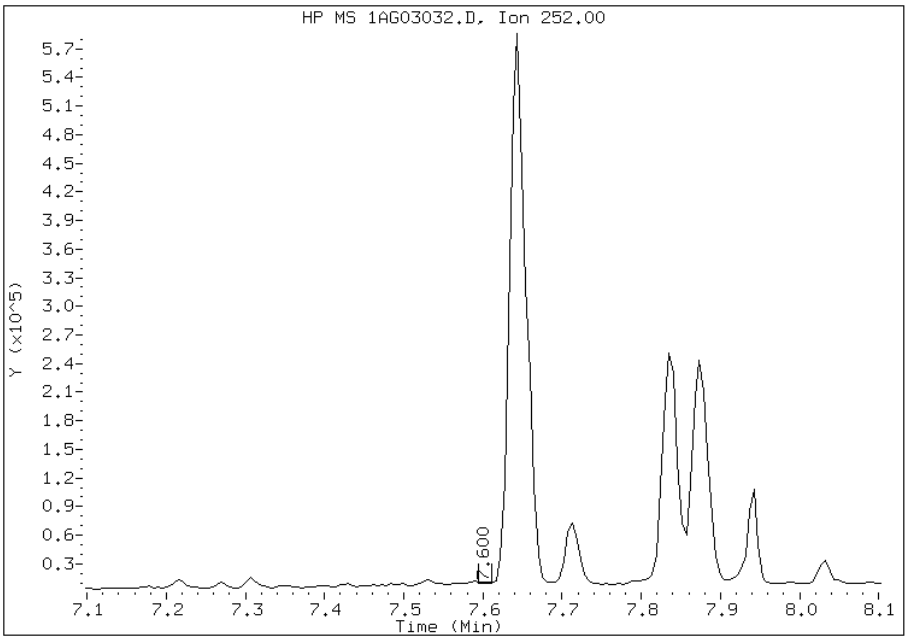
Processing Integration Results

RT: 7.60

Response: 2501

Amount: 0

Conc: 16



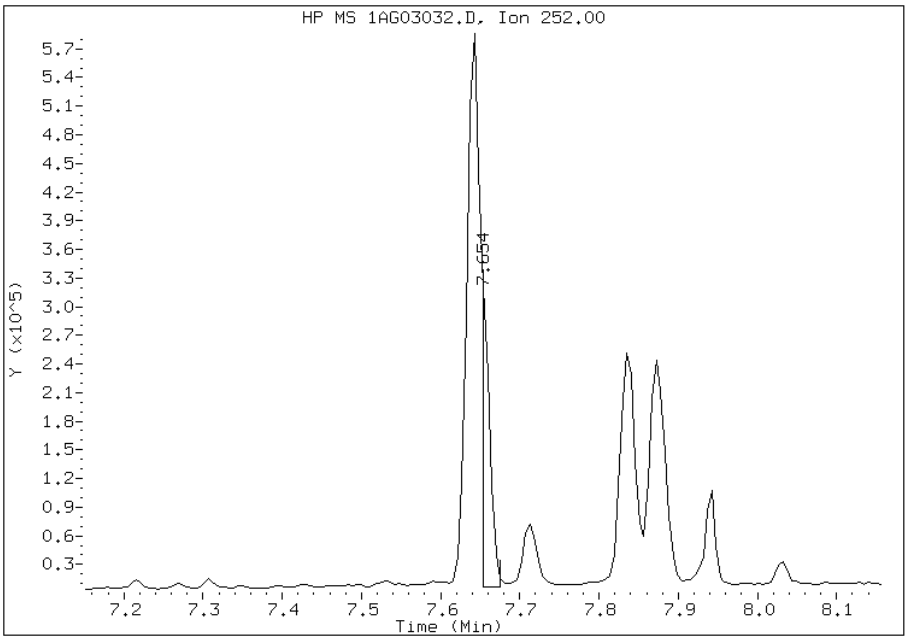
Manual Integration Results

RT: 7.65

Response: 219969

Amount: 2

Conc: 151



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG03032.D
Inj. Date and Time: 03-JUL-2013 18:40
Instrument ID: BSMA5973.i
Client ID: CV1363G-CSD
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

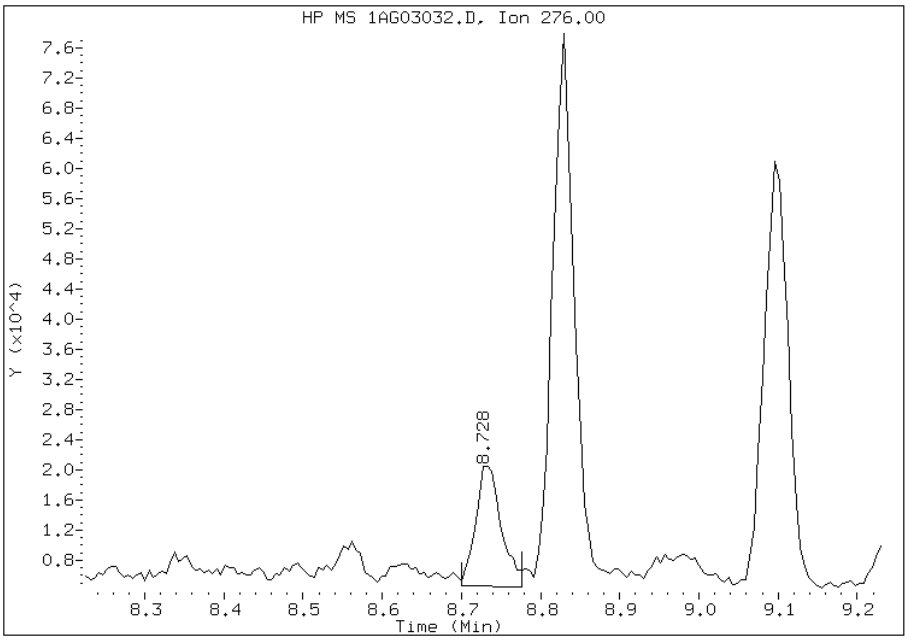
Processing Integration Results

RT: 8.73

Response: 35619

Amount: 0

Conc: 34



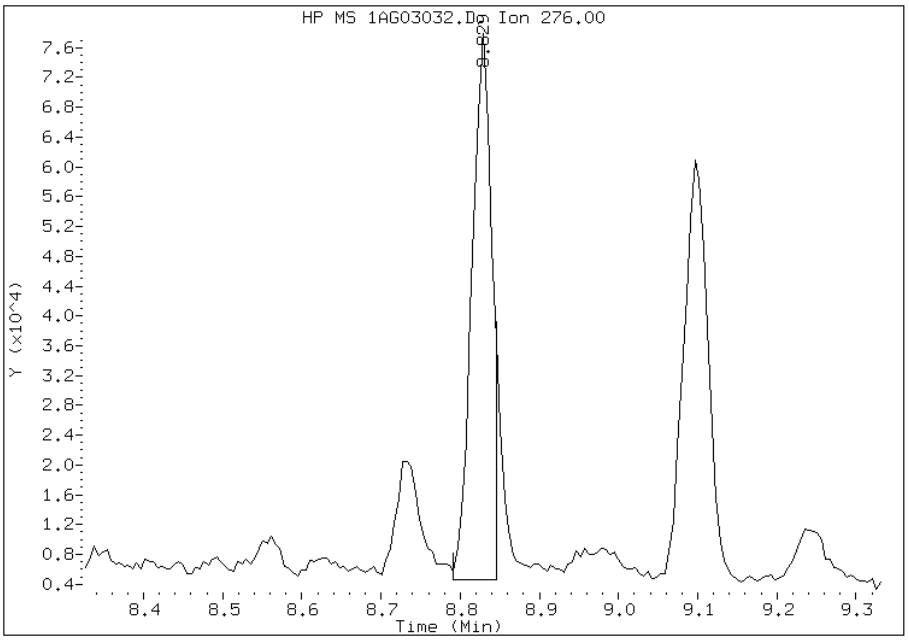
Manual Integration Results

RT: 8.83

Response: 126492

Amount: 2

Conc: 119



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:47
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363H-CS | Lab Sample ID: 680-91719-13

Matrix: Solid | Lab File ID: 1AG03033.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 07:55

Extract. Method: 3546 | Date Extracted: 07/02/2013 07:50

Sample wt/vol: 15.03(g) | Date Analyzed: 07/03/2013 18:55

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139084 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	55		48	6.0
120-12-7	Anthracene	78		10	5.0
56-55-3	Benzo[a]anthracene	220		9.6	4.7
50-32-8	Benzo[a]pyrene	200		12	6.2
205-99-2	Benzo[b]fluoranthene	390		15	7.3
191-24-2	Benzo[g,h,i]perylene	96		24	5.3
207-08-9	Benzo[k]fluoranthene	150		9.6	4.3
218-01-9	Chrysene	280		11	5.4
53-70-3	Dibenz(a,h)anthracene	47		24	4.9
206-44-0	Fluoranthene	340		24	4.8
86-73-7	Fluorene	24	U	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	99		24	8.5
90-12-0	1-Methylnaphthalene	130		48	5.3
91-57-6	2-Methylnaphthalene	140		48	8.5
91-20-3	Naphthalene	130		48	5.3
85-01-8	Phenanthrene	280		9.6	4.7
129-00-0	Pyrene	240		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	43		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03033.D
Lab Smp Id: 680-91719-A-13-A Client Smp ID: CV1363H-CS
Inj Date : 03-JUL-2013 18:55
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-A-13-A
Misc Info : 680-91719-A-13-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	Weight Extracted
M	16.916	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.704	2.689	(1.000)	3150384	40.0000	
* 7 Acenaphthene-d10	164	3.746	3.725	(1.000)	1838638	40.0000	
* 11 Phenanthrene-d10	188	4.734	4.703	(1.000)	3066046	40.0000	(H)
$ 15 o-Terphenyl	230	5.023	4.996	(1.061)	275314	4.30880	345.0507(H)
* 19 Chrysene-d12	240	6.818	6.759	(1.000)	4082441	40.0000	(H)
* 24 Perylene-d12	264	7.929	7.860	(1.000)	3196955	40.0000	(H)
2 Naphthalene	128	2.715	2.705	(1.004)	131364	1.59702	127.8898
3 2-Methylnaphthalene	141	3.126	3.105	(1.156)	98495	1.70869	136.8322
4 1-Methylnaphthalene	142	3.180	3.164	(1.176)	114960	1.66242	133.1275
6 Acenaphthylene	152	3.655	3.634	(0.976)	70351	0.68578	54.9172
12 Phenanthrene	178	4.750	4.719	(1.003)	384774	3.47136	277.9878(H)
13 Anthracene	178	4.782	4.756	(1.010)	103203	0.97114	77.7690(H)
16 Fluoranthene	202	5.642	5.600	(1.192)	560922	4.26230	341.3267(H)
17 Pyrene	202	5.813	5.771	(0.853)	492912	2.99479	239.8241(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
18 Benzo(a)anthracene	228	6.807	6.743	(0.998)	386930	2.72114	217.9098(H)
20 Chrysene	228	6.828	6.781	(1.002)	464540	3.47400	278.1992(H)
21 Benzo(b)fluoranthene	252	7.640	7.577	(0.964)	495257	4.89460	391.9611(MH)
22 Benzo(k)fluoranthene	252	7.651	7.598	(0.965)	216412	1.86302	149.1910(QMH)
23 Benzo(a)pyrene	252	7.875	7.812	(0.993)	237923	2.51597	201.4802(H)
25 Indeno(1,2,3-cd)pyrene	276	8.826	8.715	(1.113)	104377	1.23646	99.0160(MH)
26 Dibenzo(a,h)anthracene	278	8.842	8.741	(1.115)	49315	0.58955	47.2112(H)
27 Benzo(g,h,i)perylene	276	9.093	8.966	(1.147)	107491	1.19580	95.7600(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG03033.D

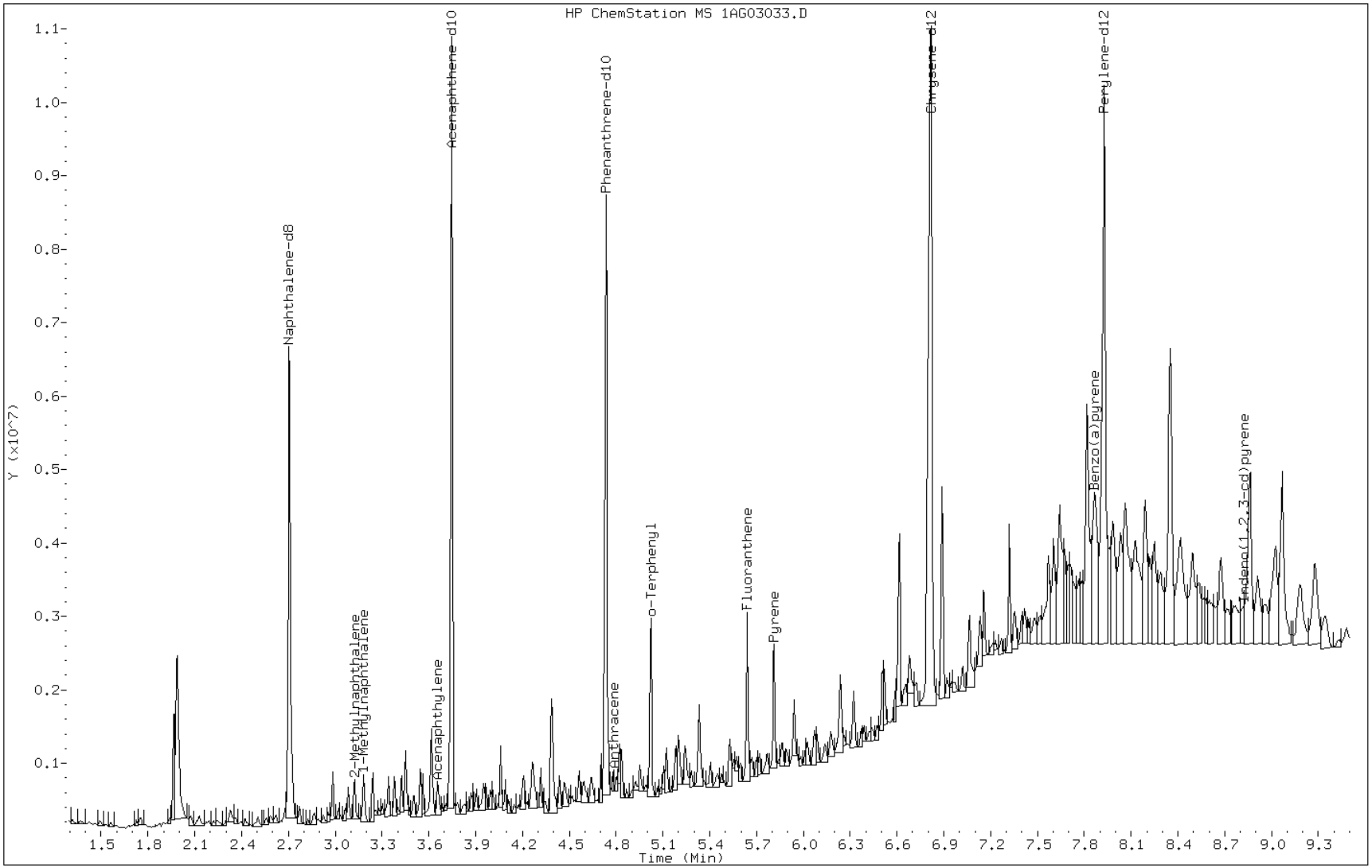
Date: 03-JUL-2013 18:55

Client ID: CV1363H-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-13-A

Operator: SCC



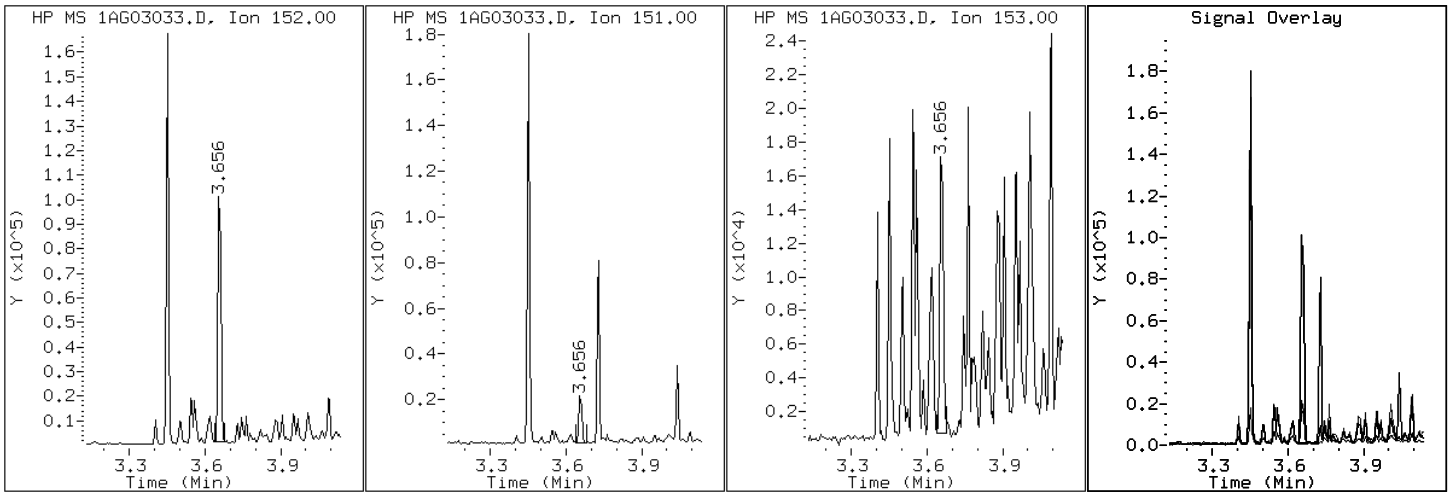
Data File: 1AG03033.D

Date: 03-JUL-2013 18:55

Client ID: CV1363H-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-13-A Operator: SCC

6 Acenaphthylene



Data File: 1AG03033.D

Date: 03-JUL-2013 18:55

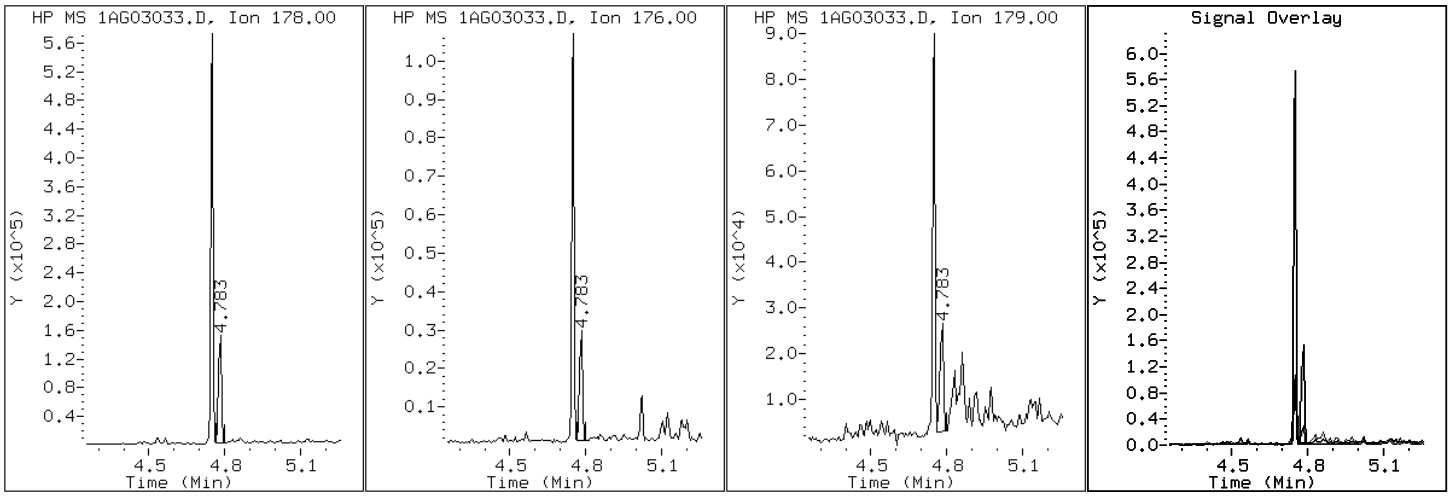
Client ID: CV1363H-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-13-A

Operator: SCC

13 Anthracene



Data File: 1AG03033.D

Date: 03-JUL-2013 18:55

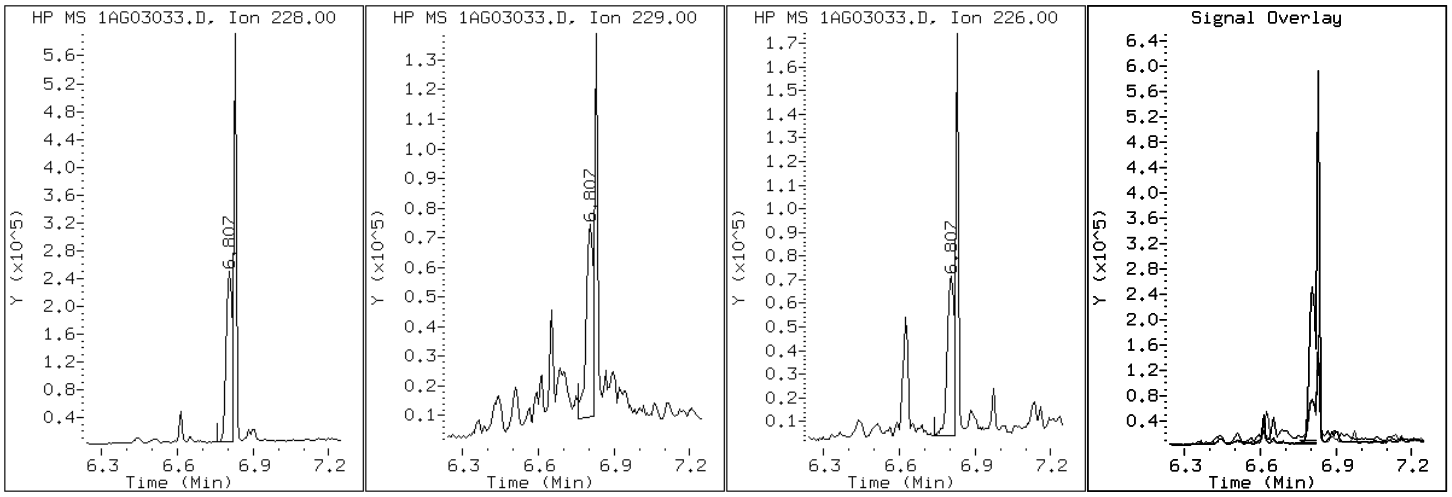
Client ID: CV1363H-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-13-A

Operator: SCC

18 Benzo(a)anthracene



Data File: 1AG03033.D

Date: 03-JUL-2013 18:55

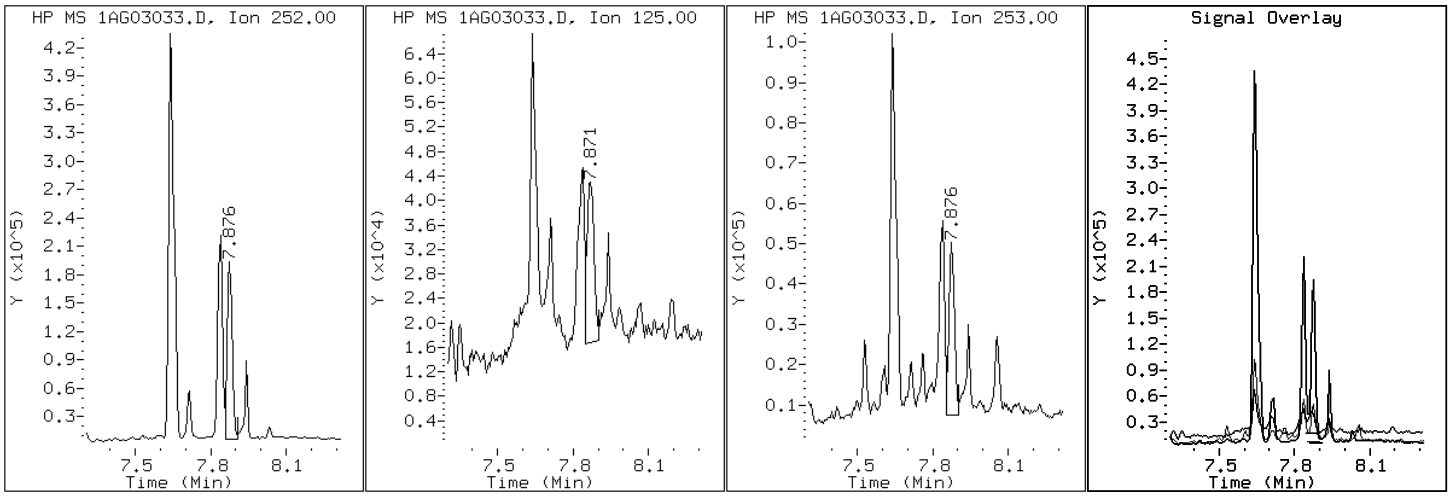
Client ID: CV1363H-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-13-A

Operator: SCC

23 Benzo(a)pyrene



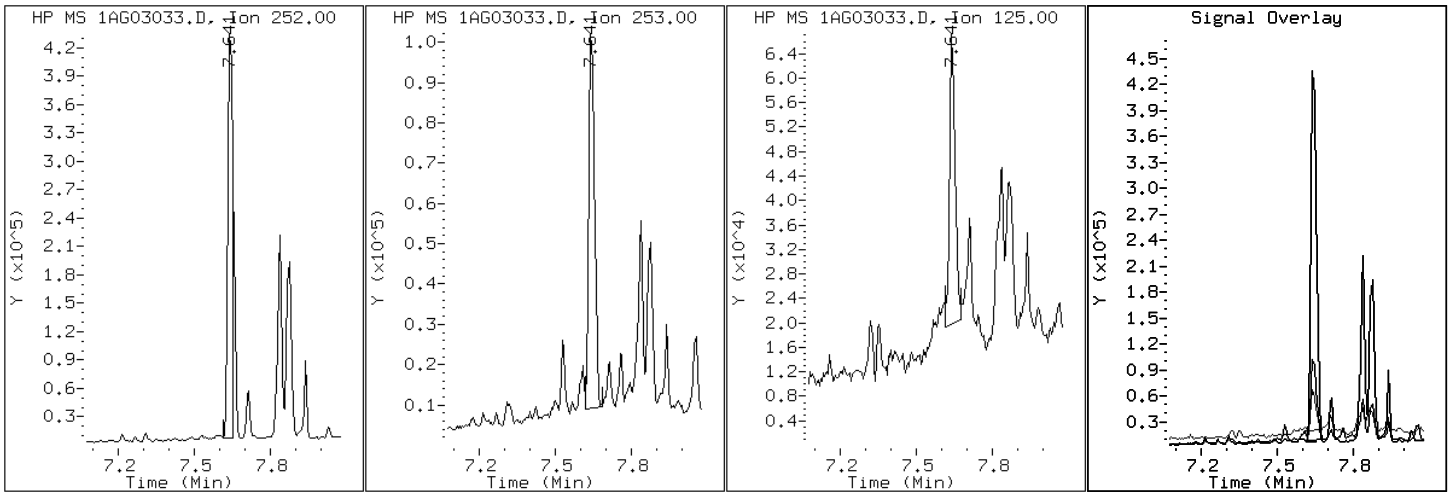
Data File: 1AG03033.D

Date: 03-JUL-2013 18:55

Client ID: CV1363H-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-13-A Operator: SCC

21 Benzo(b)fluoranthene



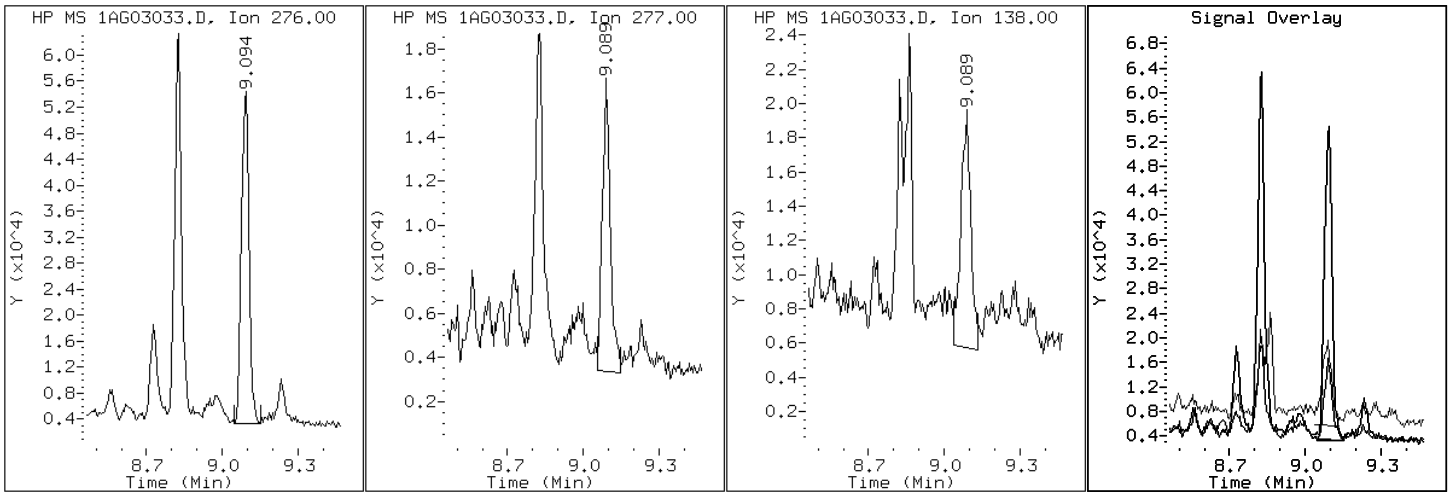
Data File: 1AG03033.D

Date: 03-JUL-2013 18:55

Client ID: CV1363H-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-13-A Operator: SCC

27 Benzo(g,h,i)perylene



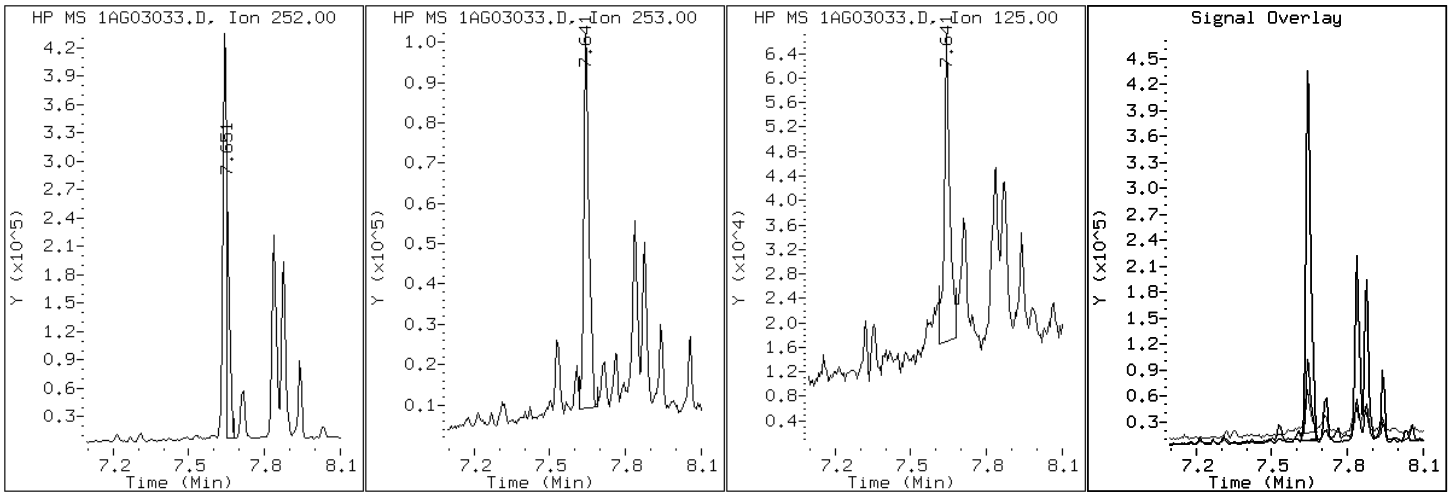
Data File: 1AG03033.D

Date: 03-JUL-2013 18:55

Client ID: CV1363H-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-13-A Operator: SCC

22 Benzo(k)fluoranthene



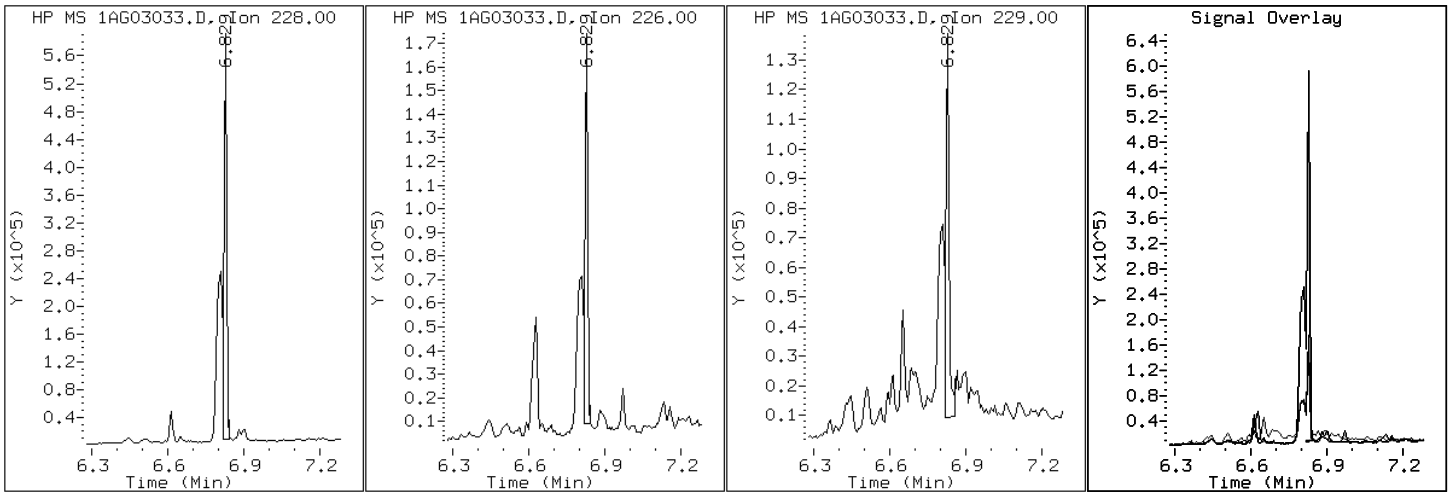
Data File: 1AG03033.D

Date: 03-JUL-2013 18:55

Client ID: CV1363H-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-13-A Operator: SCC

20 Chrysene



Data File: 1AG03033.D

Date: 03-JUL-2013 18:55

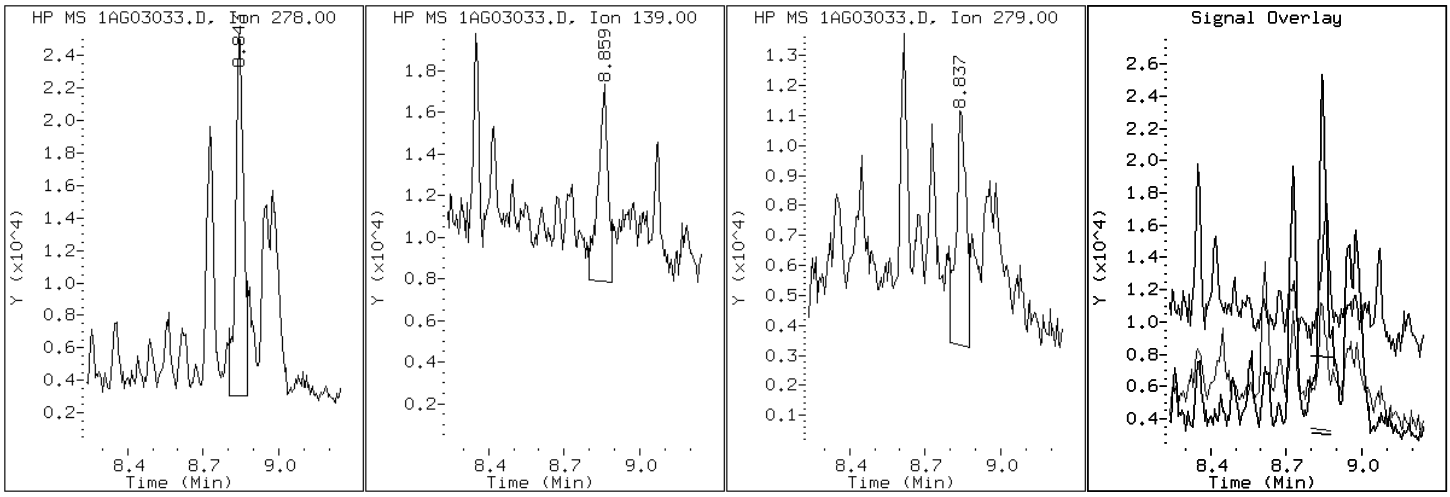
Client ID: CV1363H-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-13-A

Operator: SCC

26 Dibenzo(a,h)anthracene



Data File: 1AG03033.D

Date: 03-JUL-2013 18:55

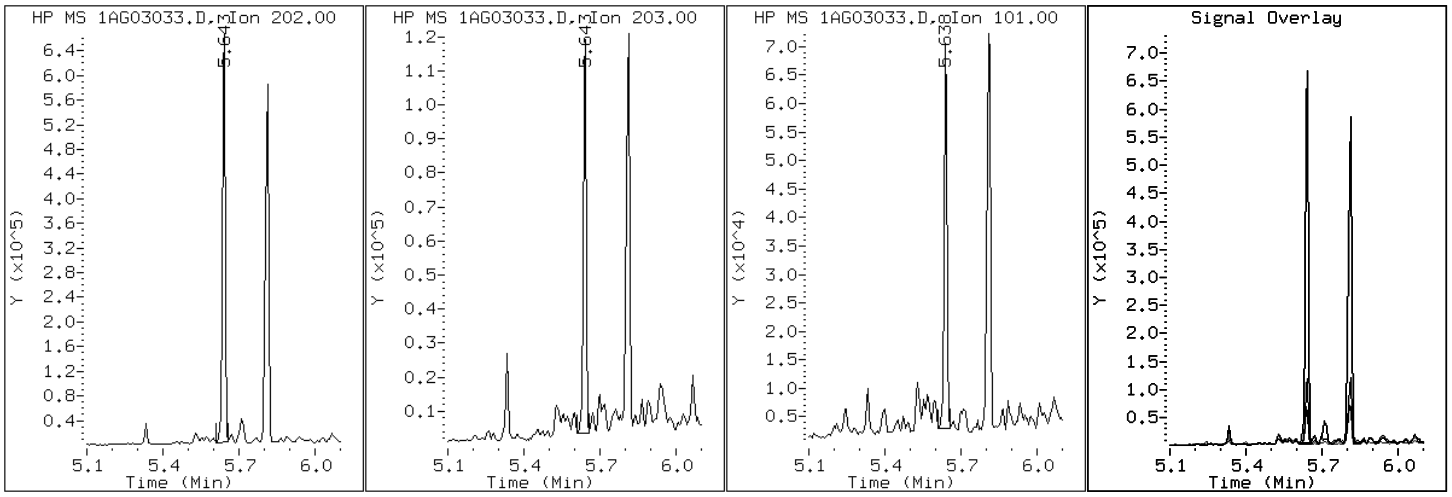
Client ID: CV1363H-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-13-A

Operator: SCC

16 Fluoranthene



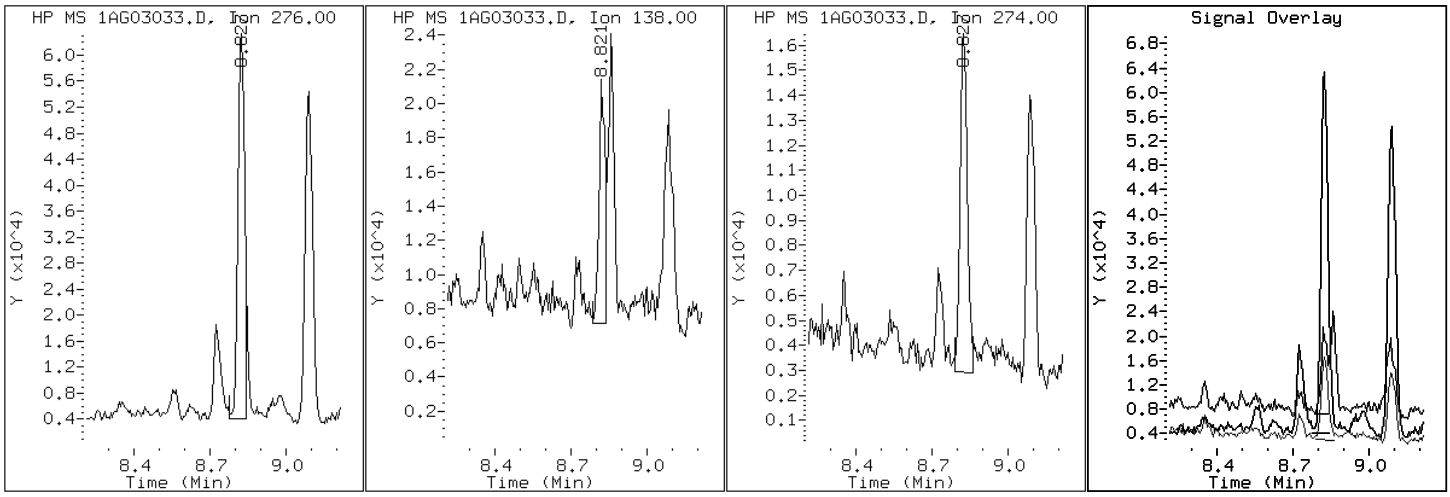
Data File: 1AG03033.D

Date: 03-JUL-2013 18:55

Client ID: CV1363H-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-13-A Operator: SCC

25 Indeno(1,2,3-cd)pyrene



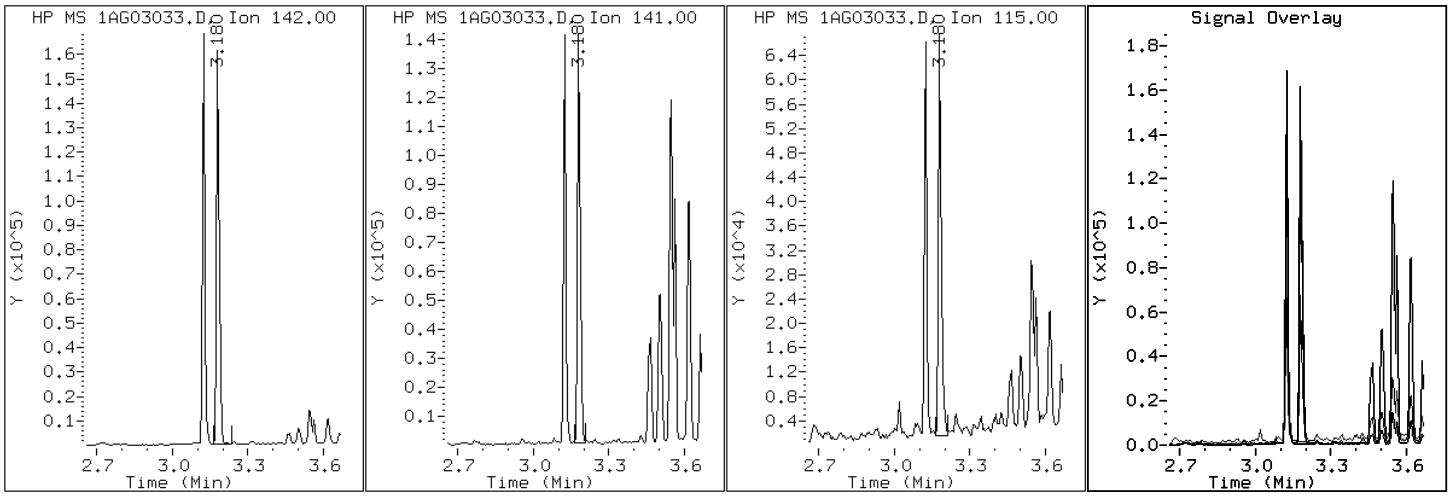
Data File: 1AG03033.D

Date: 03-JUL-2013 18:55

Client ID: CV1363H-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-13-A Operator: SCC

4 1-Methylnaphthalene



Data File: 1AG03033.D

Date: 03-JUL-2013 18:55

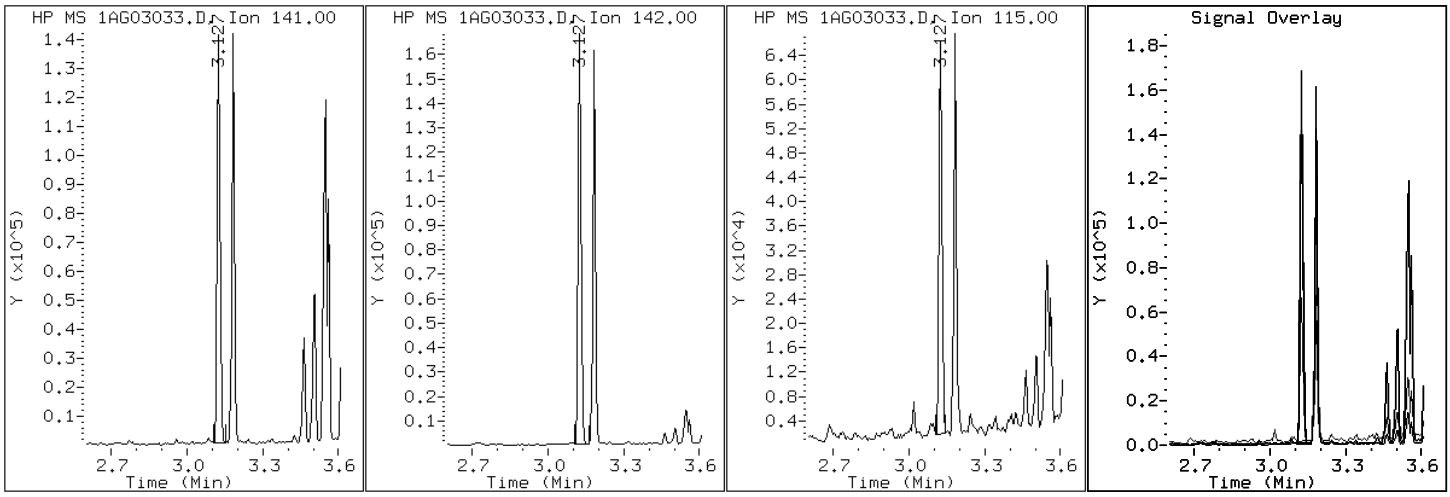
Client ID: CV1363H-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-13-A

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AG03033.D

Date: 03-JUL-2013 18:55

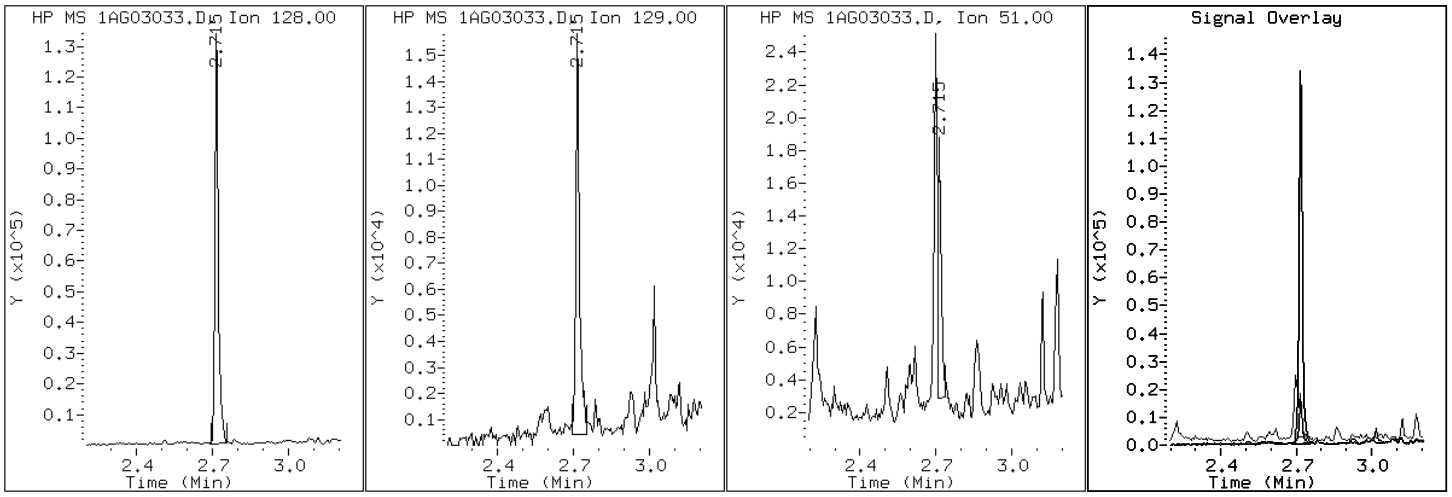
Client ID: CV1363H-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-13-A

Operator: SCC

2 Naphthalene



Data File: 1AG03033.D

Date: 03-JUL-2013 18:55

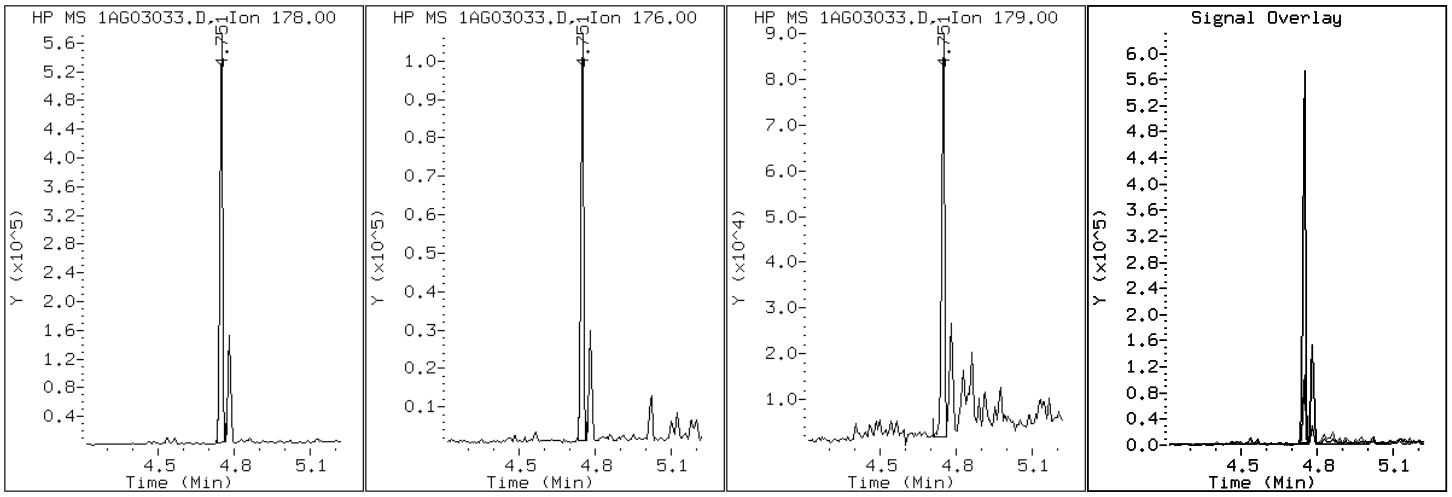
Client ID: CV1363H-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-13-A

Operator: SCC

12 Phenanthrene



Data File: 1AG03033.D

Date: 03-JUL-2013 18:55

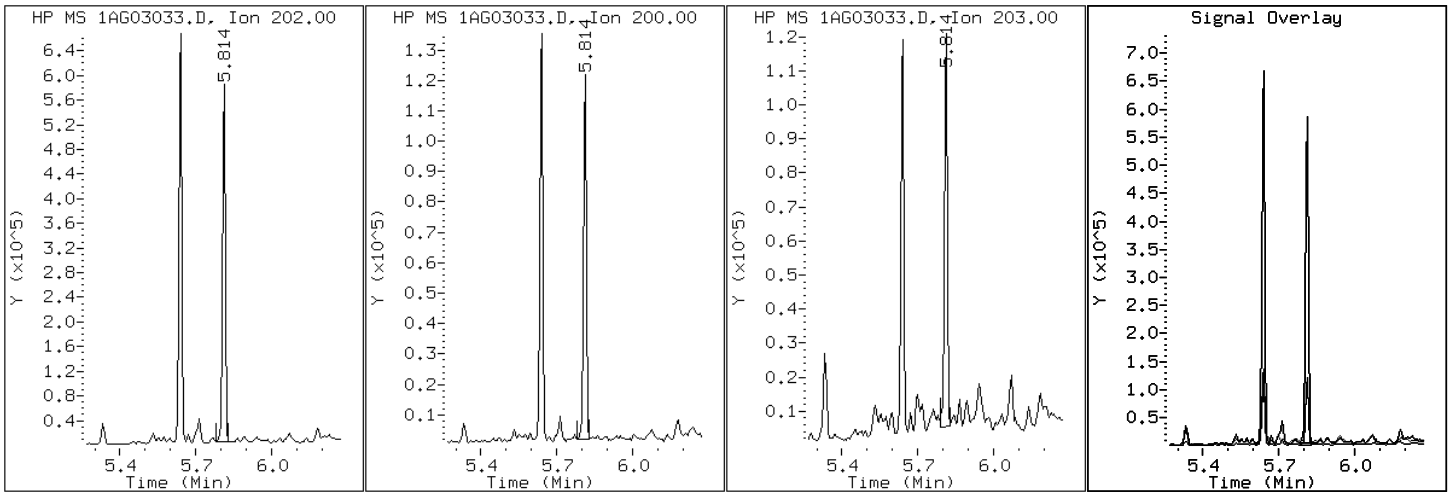
Client ID: CV1363H-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-13-A

Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG03033.D
Inj. Date and Time: 03-JUL-2013 18:55
Instrument ID: BSMA5973.i
Client ID: CV1363H-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/08/2013

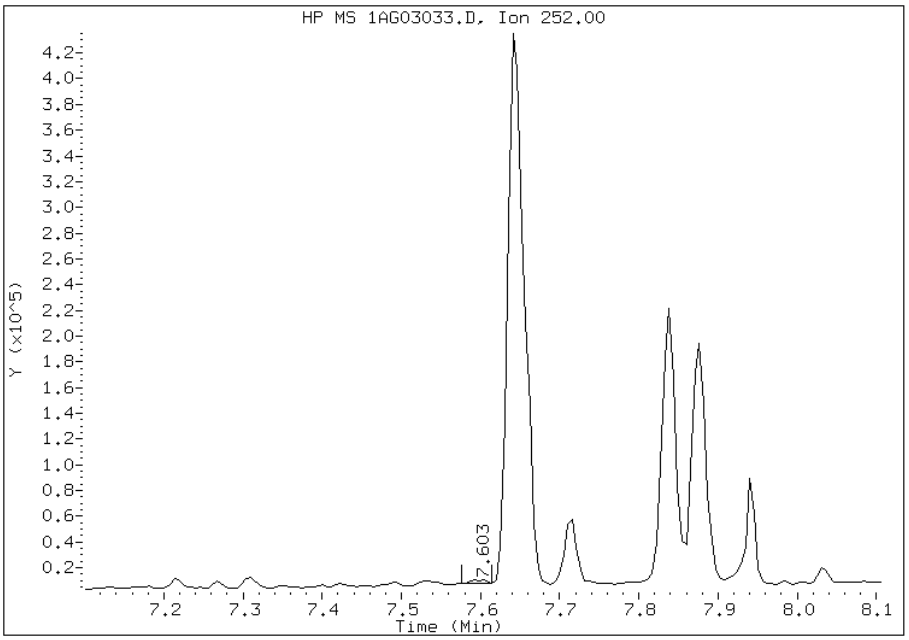
Processing Integration Results

RT: 7.60

Response: 3939

Amount: 0

Conc: 3



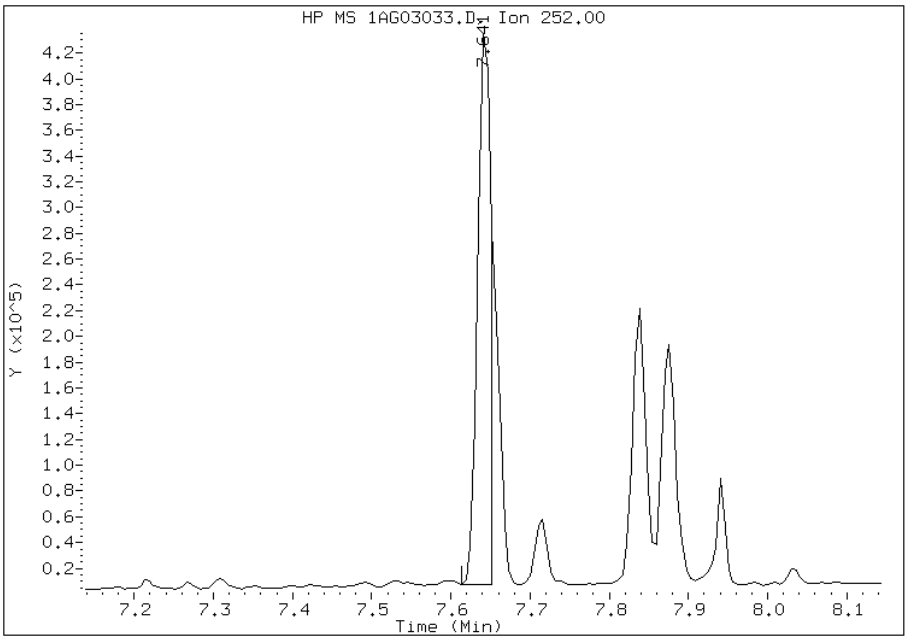
Manual Integration Results

RT: 7.64

Response: 495257

Amount: 5

Conc: 392



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:48
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG03033.D
Inj. Date and Time: 03-JUL-2013 18:55
Instrument ID: BSMA5973.i
Client ID: CV1363H-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/08/2013

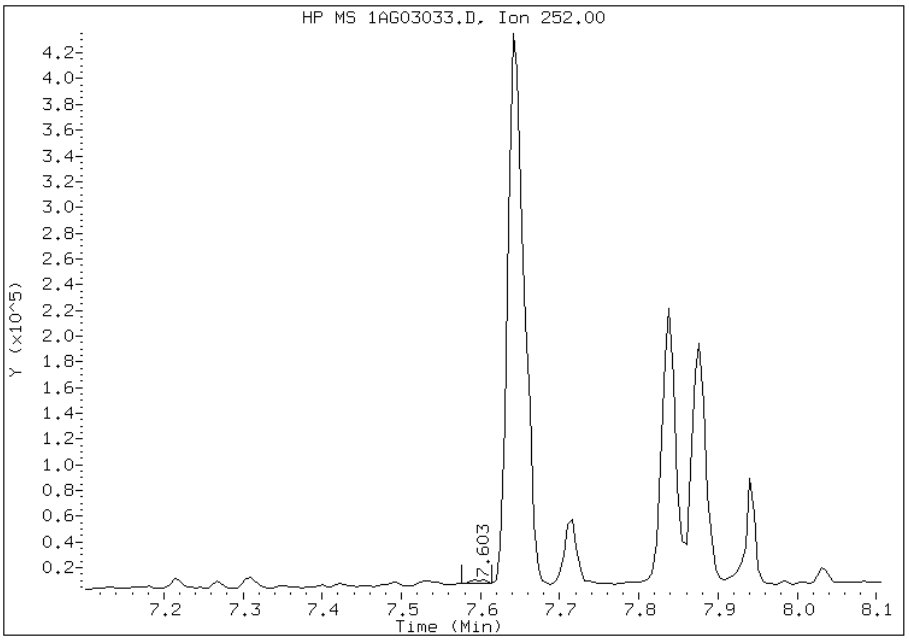
Processing Integration Results

RT: 7.60

Response: 3939

Amount: 0

Conc: 17



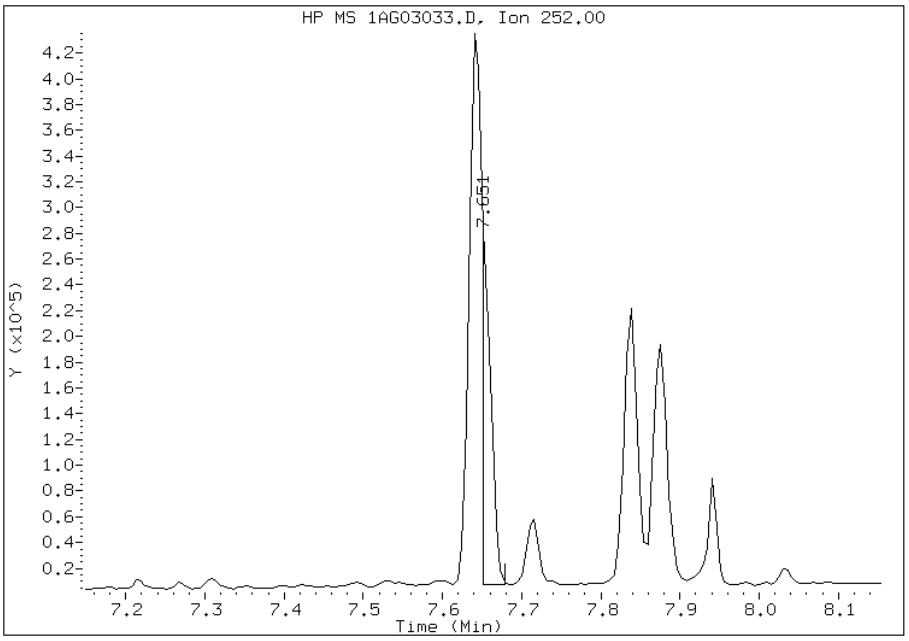
Manual Integration Results

RT: 7.65

Response: 216412

Amount: 2

Conc: 149



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:48
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG03033.D
Inj. Date and Time: 03-JUL-2013 18:55
Instrument ID: BSMA5973.i
Client ID: CV1363H-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

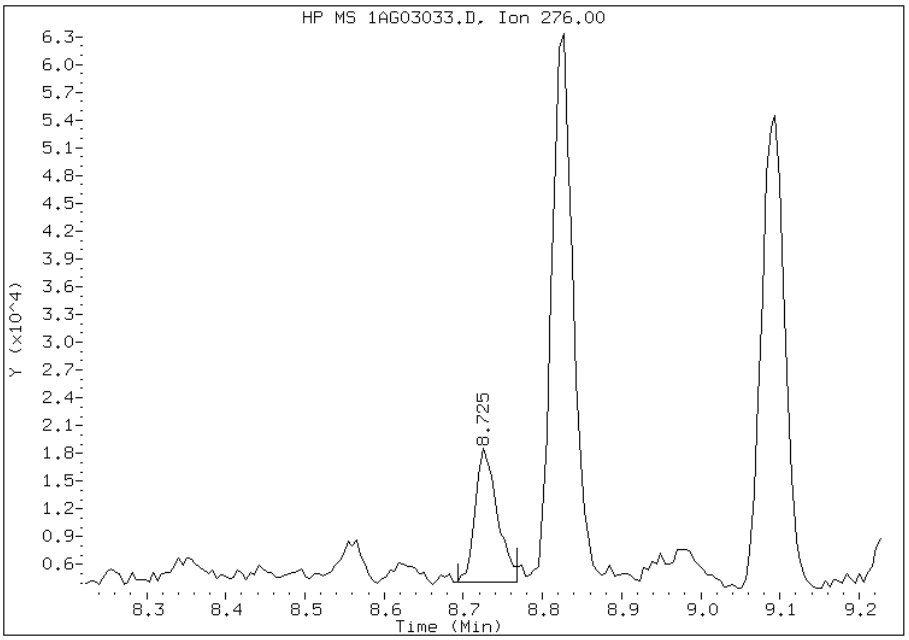
Processing Integration Results

RT: 8.73

Response: 28016

Amount: 0

Conc: 27



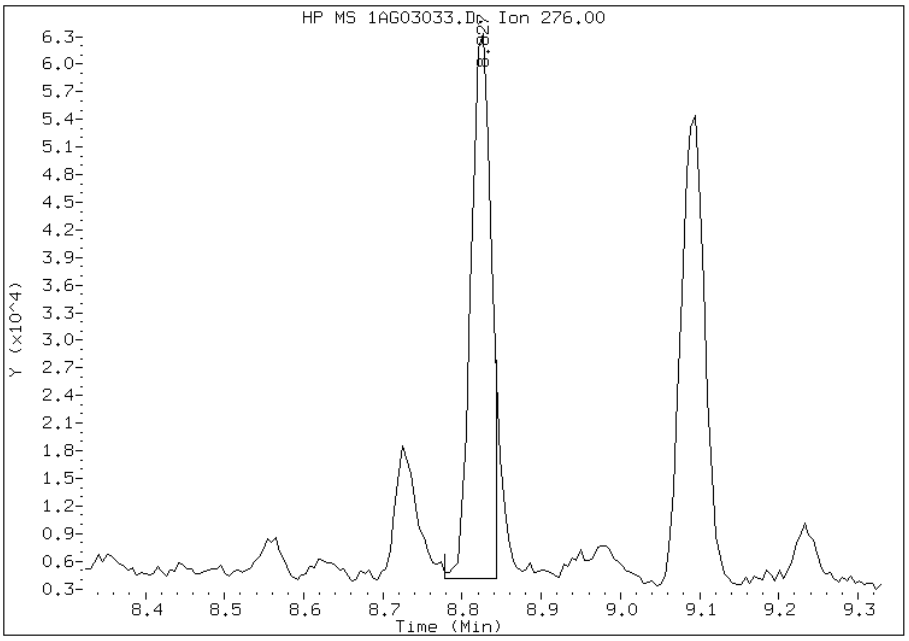
Manual Integration Results

RT: 8.83

Response: 104377

Amount: 1

Conc: 99



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:49
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363I-CS | Lab Sample ID: 680-91719-14

Matrix: Solid | Lab File ID: 1AG03034.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 07:51

Extract. Method: 3546 | Date Extracted: 07/02/2013 07:50

Sample wt/vol: 15.11(g) | Date Analyzed: 07/03/2013 19:10

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 15.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139084 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	54		47	5.9
120-12-7	Anthracene	91		9.9	4.9
56-55-3	Benzo[a]anthracene	270		9.4	4.6
50-32-8	Benzo[a]pyrene	220		12	6.1
205-99-2	Benzo[b]fluoranthene	480		14	7.2
191-24-2	Benzo[g,h,i]perylene	90		24	5.2
207-08-9	Benzo[k]fluoranthene	120		9.4	4.2
218-01-9	Chrysene	360		11	5.3
53-70-3	Dibenz(a,h)anthracene	47		24	4.8
206-44-0	Fluoranthene	480		24	4.7
86-73-7	Fluorene	42		24	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	96		24	8.4
90-12-0	1-Methylnaphthalene	170		47	5.2
91-57-6	2-Methylnaphthalene	170		47	8.4
91-20-3	Naphthalene	180		47	5.2
85-01-8	Phenanthrene	350		9.4	4.6
129-00-0	Pyrene	310		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	45		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03034.D
Lab Smp Id: 680-91719-A-14-A Client Smp ID: CV1363I-CS
Inj Date : 03-JUL-2013 19:10
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-A-14-A
Misc Info : 680-91719-A-14-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.110	Weight Extracted
M	15.598	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.709	2.689	(1.000)	2907028	40.0000	
* 7 Acenaphthene-d10	164	3.751	3.725	(1.000)	1778701	40.0000	(H)
* 11 Phenanthrene-d10	188	4.739	4.703	(1.000)	2883677	40.0000	
$ 15 o-Terphenyl	230	5.022	4.996	(1.060)	268469	4.48165	351.4162
* 19 Chrysene-d12	240	6.823	6.759	(1.000)	4161418	40.0000	(H)
* 24 Perylene-d12	264	7.934	7.860	(1.000)	3164584	40.0000	(H)
2 Naphthalene	128	2.720	2.705	(1.004)	171791	2.26333	177.4731
3 2-Methylnaphthalene	141	3.126	3.105	(1.154)	113969	2.13213	167.1848
4 1-Methylnaphthalene	142	3.185	3.164	(1.175)	139035	2.17714	170.7144
6 Acenaphthylene	152	3.660	3.634	(0.976)	68395	0.68807	53.9528(H)
10 Fluorene	166	4.093	4.067	(1.091)	25761	0.53860	42.2328(H)
12 Phenanthrene	178	4.750	4.719	(1.002)	459281	4.46591	350.1825
13 Anthracene	178	4.782	4.756	(1.009)	120564	1.16238	91.1448
16 Fluoranthene	202	5.648	5.600	(1.192)	741925	6.12733	480.4584

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Pyrene	202	5.818	5.771	(0.853)	657529	3.91914	307.3089(H)
18 Benzo(a)anthracene	228	6.812	6.743	(0.998)	499602	3.47258	272.2932(H)
20 Chrysene	228	6.833	6.781	(1.002)	626199	4.59407	360.2317(H)
21 Benzo(b)fluoranthene	252	7.651	7.577	(0.964)	619134	6.18146	484.7022(MH)
22 Benzo(k)fluoranthene	252	7.662	7.598	(0.966)	168584	1.49669	117.3587(QMH)
23 Benzo(a)pyrene	252	7.881	7.812	(0.993)	262324	2.80238	219.7414(H)
25 Indeno(1,2,3-cd)pyrene	276	8.831	8.715	(1.113)	102613	1.22800	96.2900(MH)
26 Dibenzo(a,h)anthracene	278	8.853	8.741	(1.116)	49186	0.59402	46.5785(H)
27 Benzo(g,h,i)perylene	276	9.104	8.966	(1.147)	102688	1.15405	90.4919(H)

QC Flag Legend

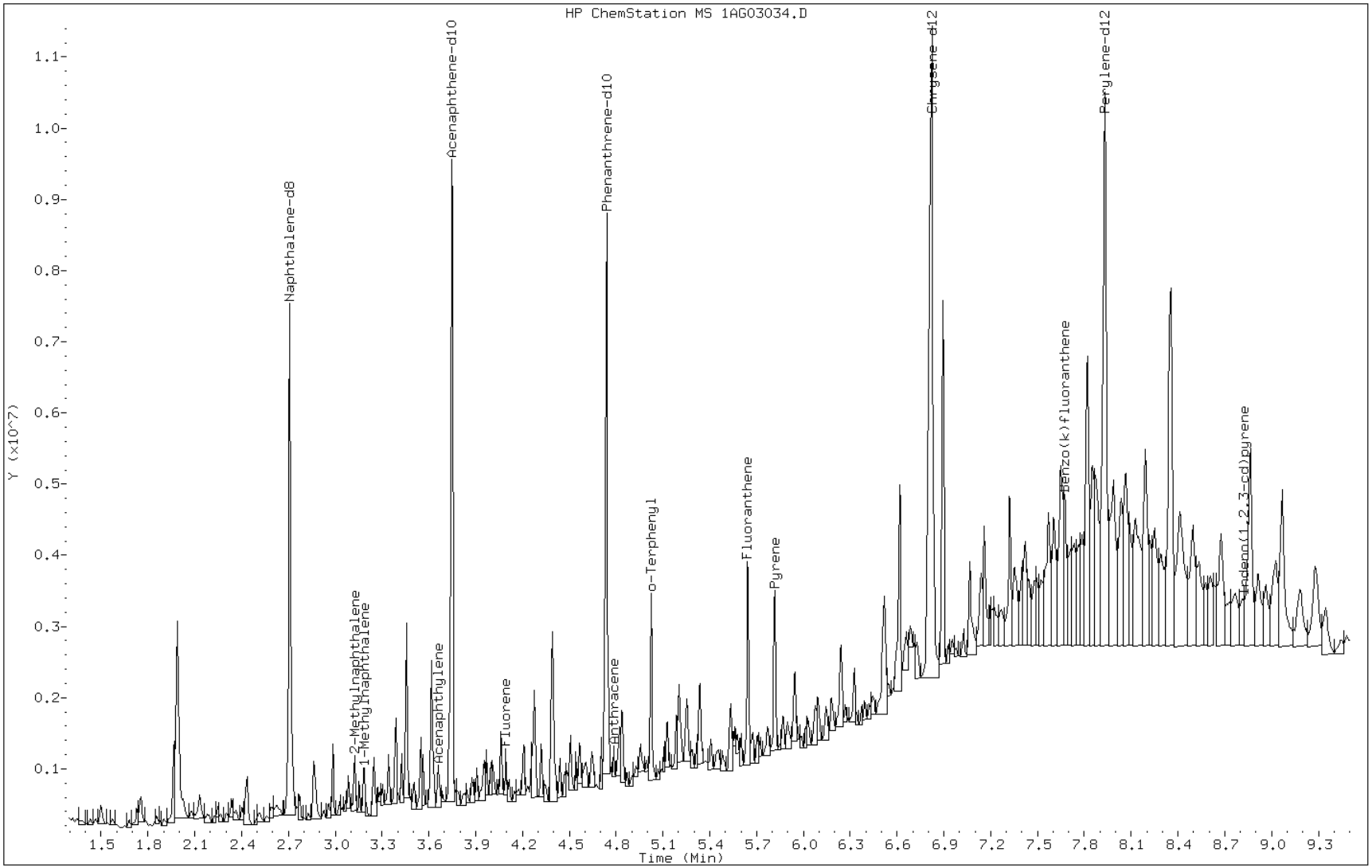
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG03034.D

Date: 03-JUL-2013 19:10

Client ID: CV1363I-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-14-A Operator: SCC



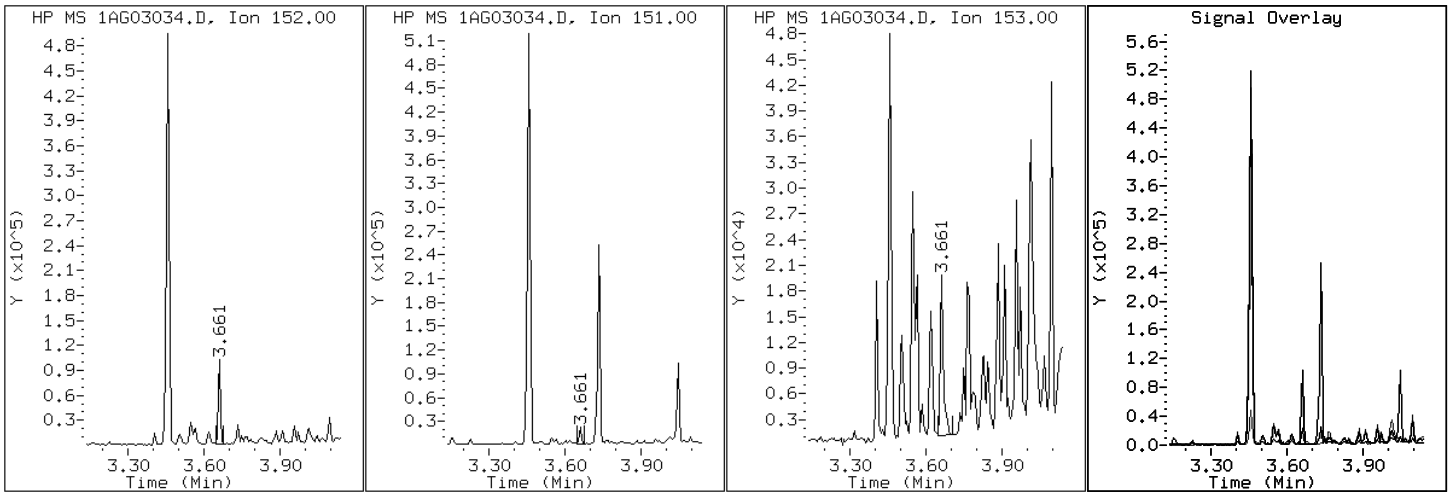
Data File: 1AG03034.D

Date: 03-JUL-2013 19:10

Client ID: CV1363I-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-14-A Operator: SCC

6 Acenaphthylene



Data File: 1AG03034.D

Date: 03-JUL-2013 19:10

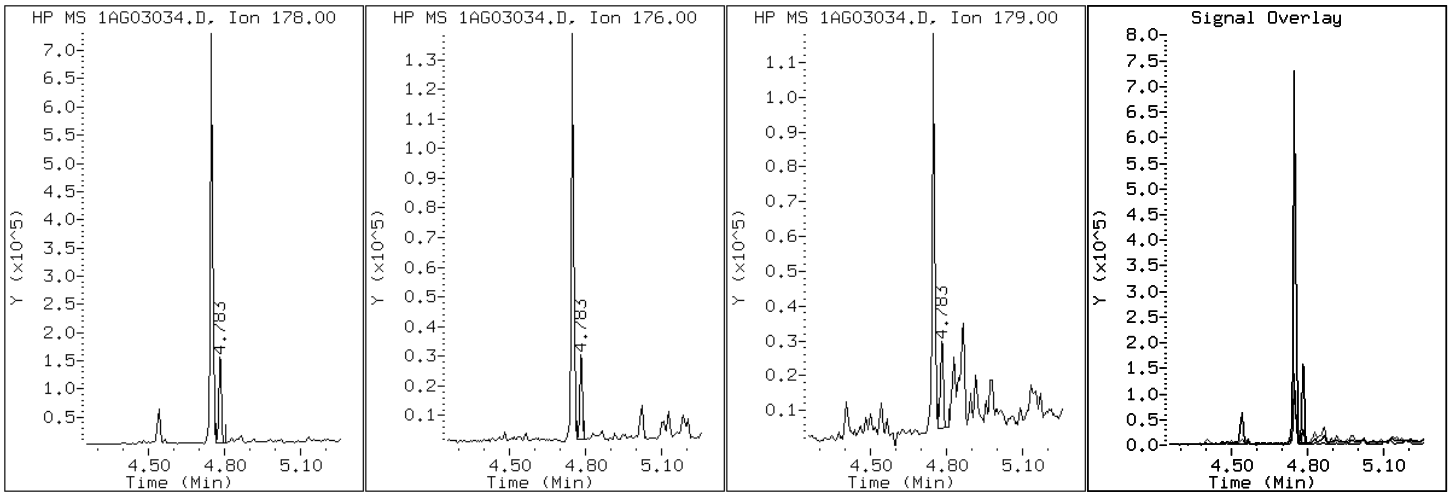
Client ID: CV1363I-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-14-A

Operator: SCC

13 Anthracene



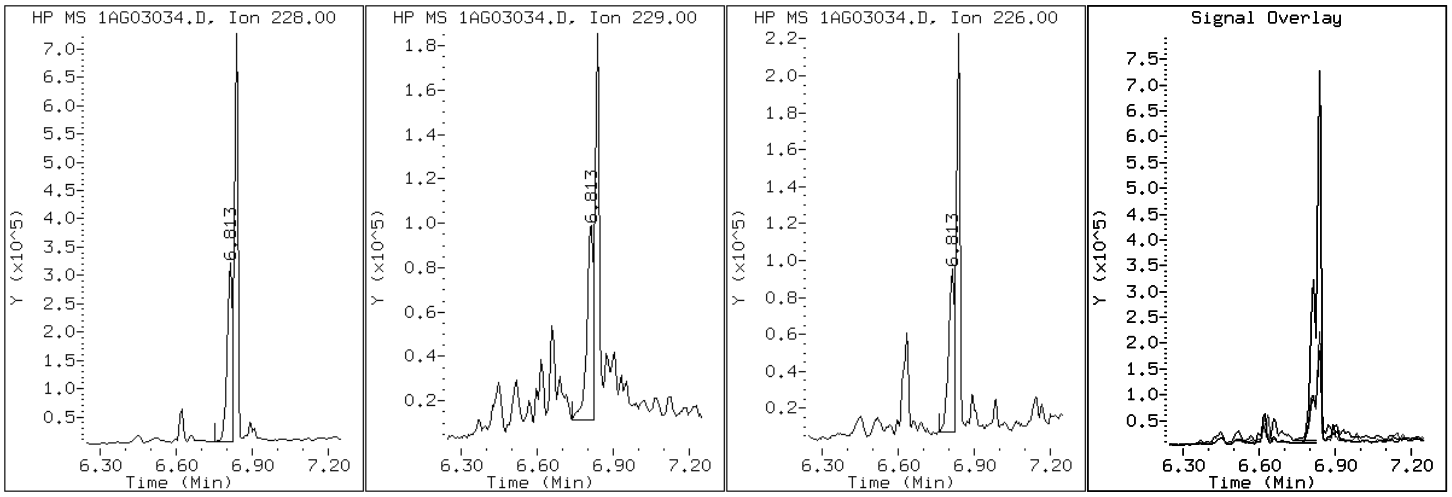
Data File: 1AG03034.D

Date: 03-JUL-2013 19:10

Client ID: CV1363I-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-14-A Operator: SCC

18 Benzo(a)anthracene



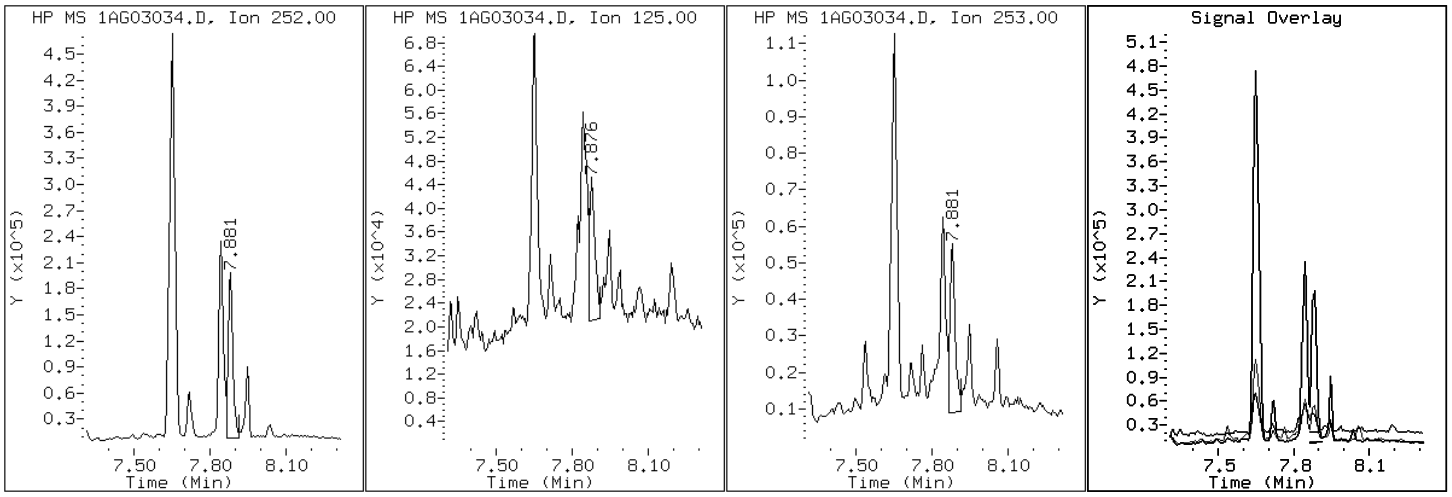
Data File: 1AG03034.D

Date: 03-JUL-2013 19:10

Client ID: CV1363I-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-14-A Operator: SCC

23 Benzo(a)pyrene



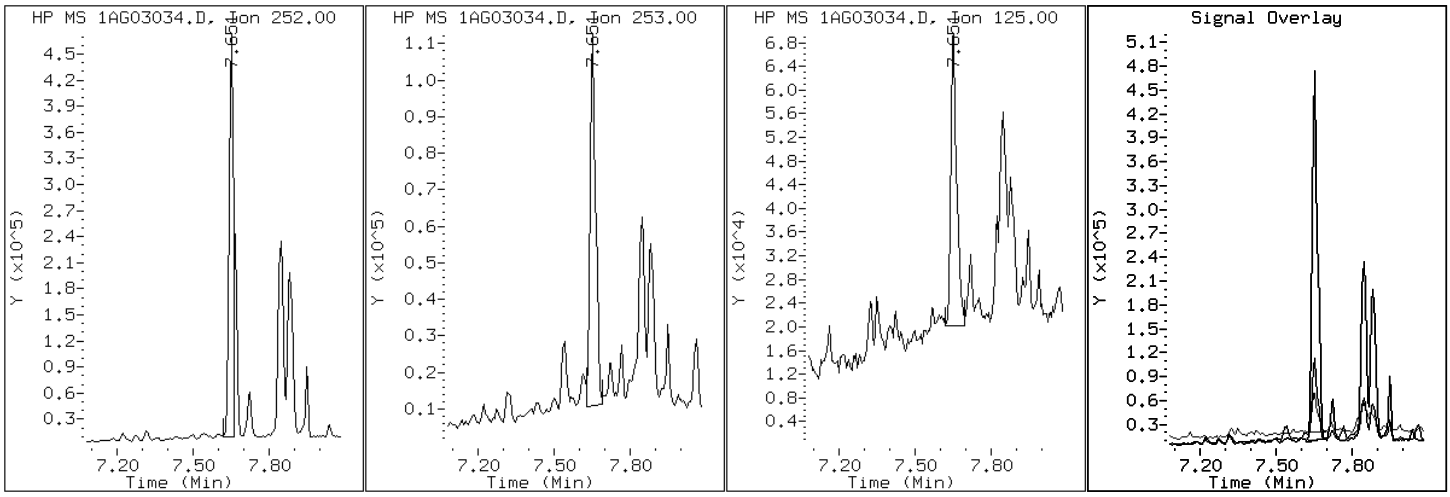
Data File: 1AG03034.D

Date: 03-JUL-2013 19:10

Client ID: CV1363I-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-14-A Operator: SCC

21 Benzo(b)fluoranthene



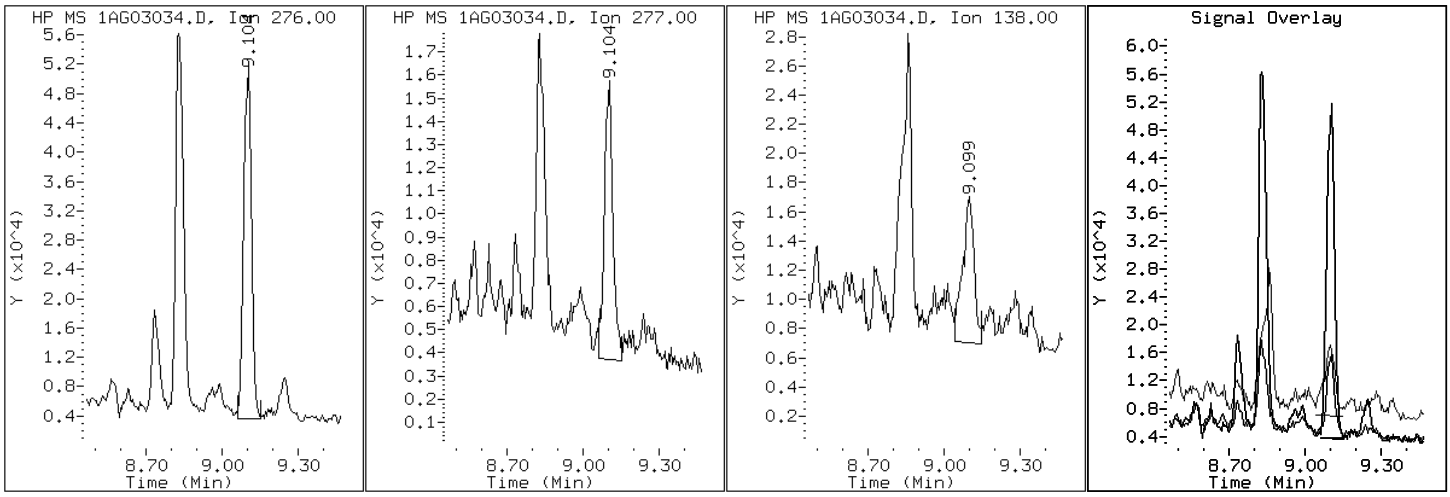
Data File: 1AG03034.D

Date: 03-JUL-2013 19:10

Client ID: CV1363I-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-14-A Operator: SCC

27 Benzo(g,h,i)perylene



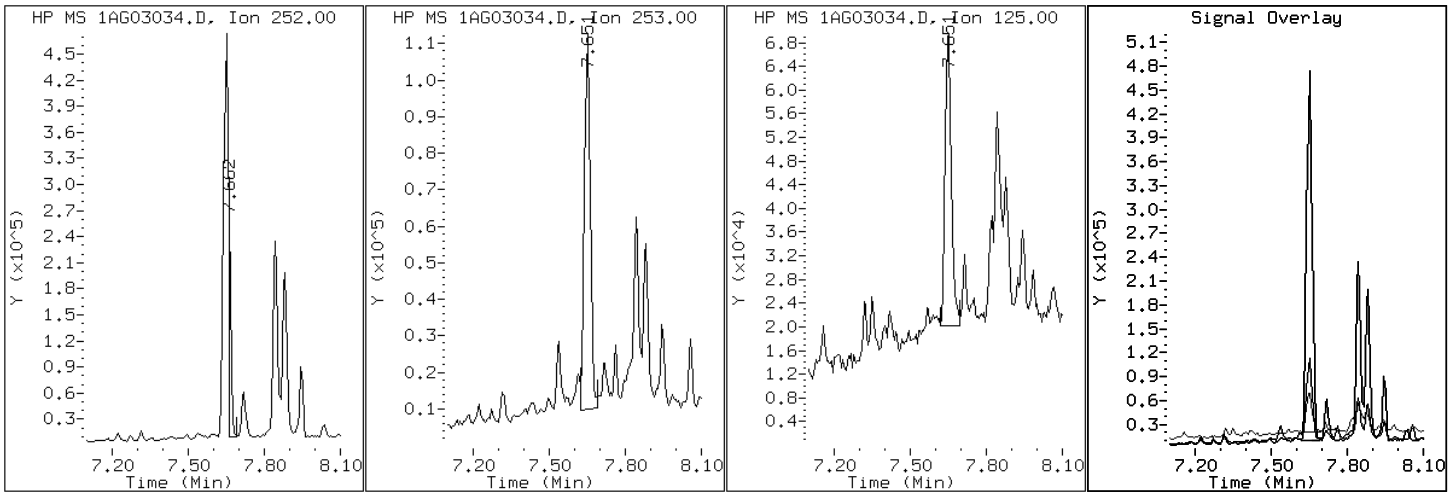
Data File: 1AG03034.D

Date: 03-JUL-2013 19:10

Client ID: CV1363I-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-14-A Operator: SCC

22 Benzo(k)fluoranthene



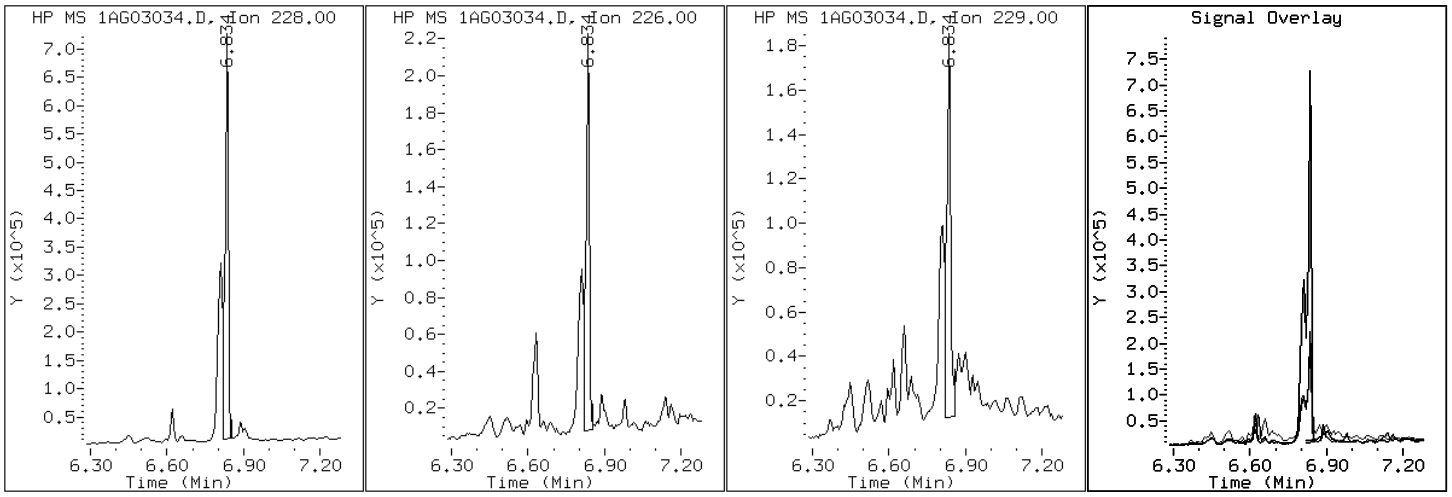
Data File: 1AG03034.D

Date: 03-JUL-2013 19:10

Client ID: CV1363I-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-14-A Operator: SCC

20 Chrysene



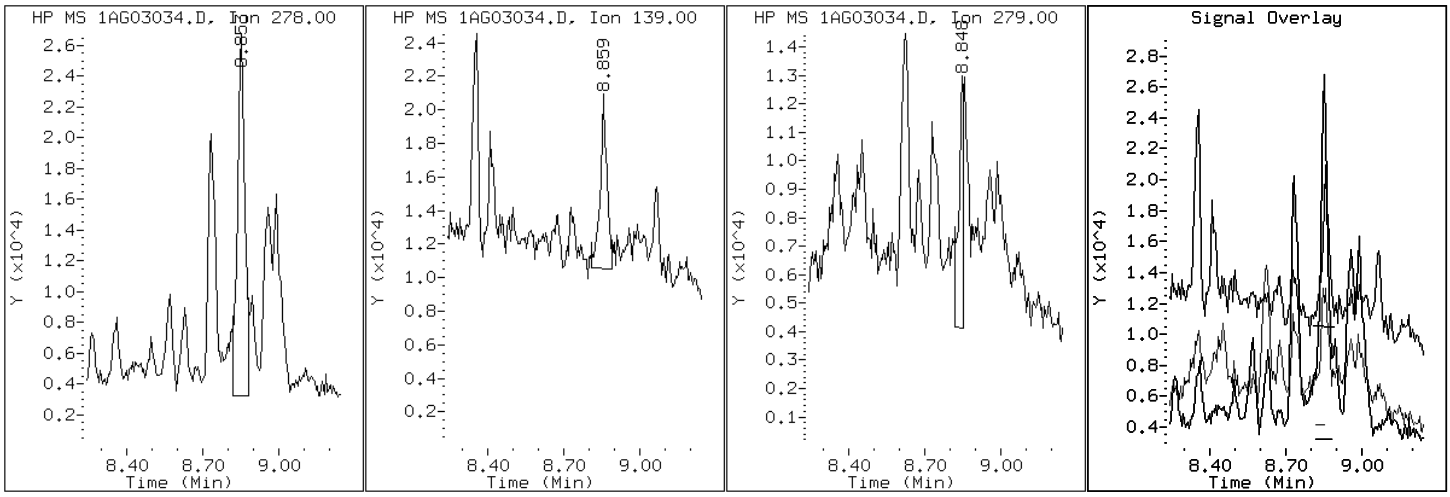
Data File: 1AG03034.D

Date: 03-JUL-2013 19:10

Client ID: CV1363I-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-14-A Operator: SCC

26 Dibenzo(a,h)anthracene



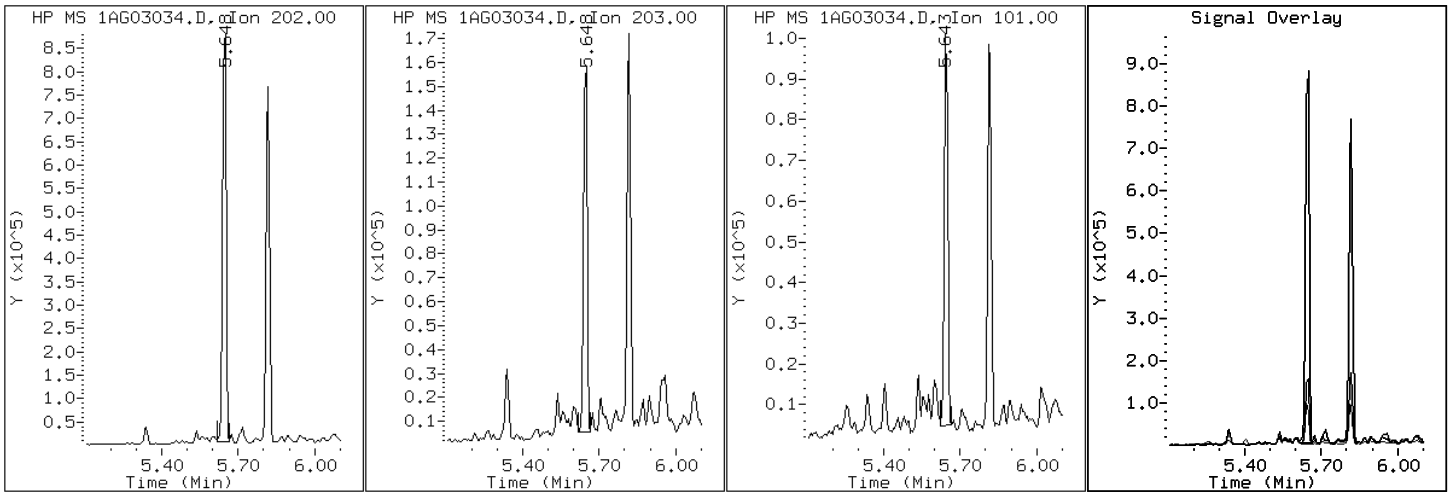
Data File: 1AG03034.D

Date: 03-JUL-2013 19:10

Client ID: CV1363I-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-14-A Operator: SCC

16 Fluoranthene



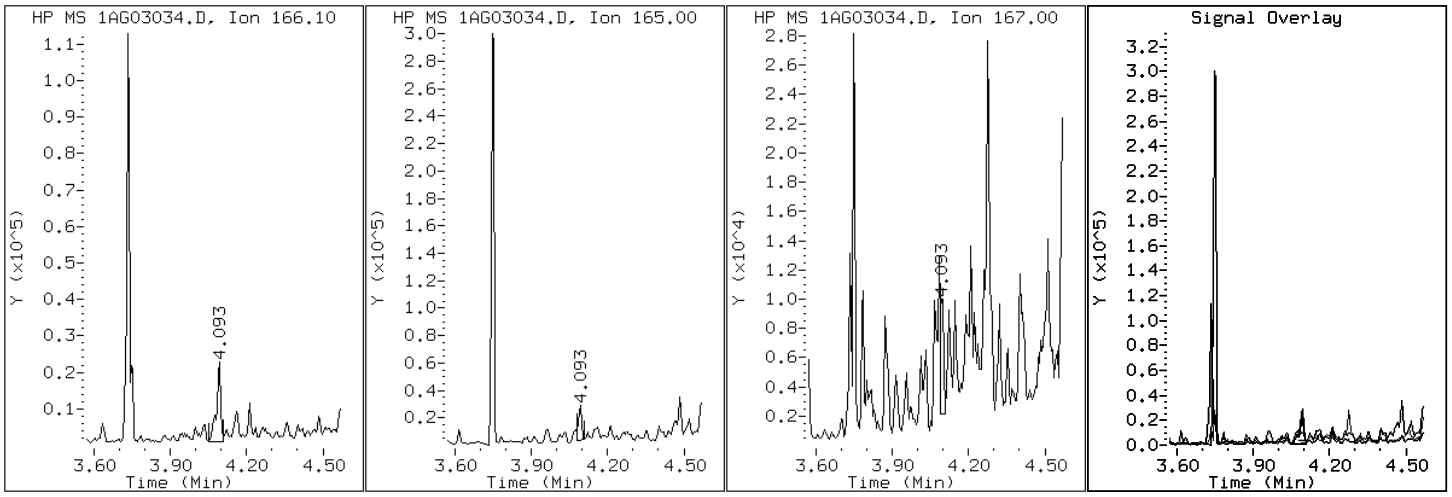
Data File: 1AG03034.D

Date: 03-JUL-2013 19:10

Client ID: CV1363I-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-14-A Operator: SCC

10 Fluorene



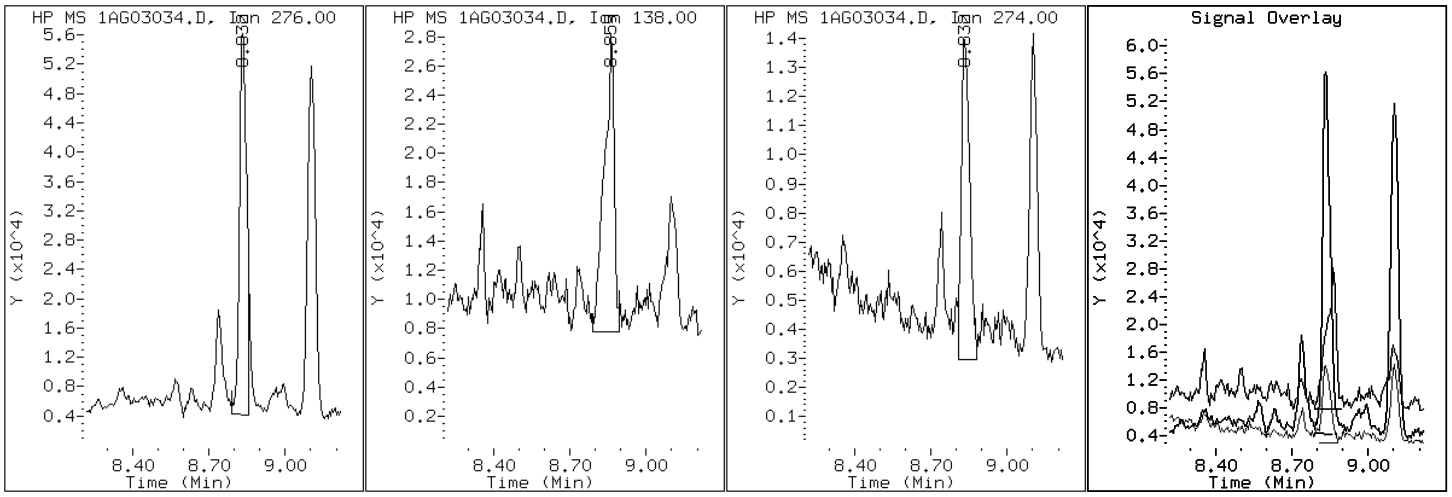
Data File: 1AG03034.D

Date: 03-JUL-2013 19:10

Client ID: CV1363I-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-14-A Operator: SCC

25 Indeno(1,2,3-cd)pyrene



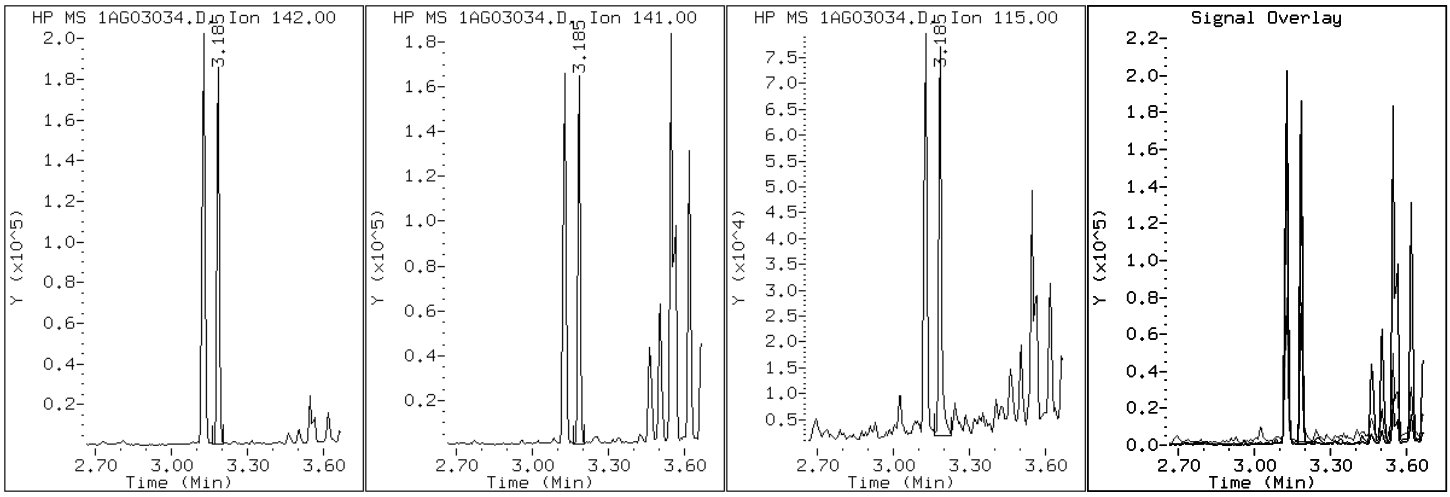
Data File: 1AG03034.D

Date: 03-JUL-2013 19:10

Client ID: CV1363I-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-14-A Operator: SCC

4 1-Methylnaphthalene



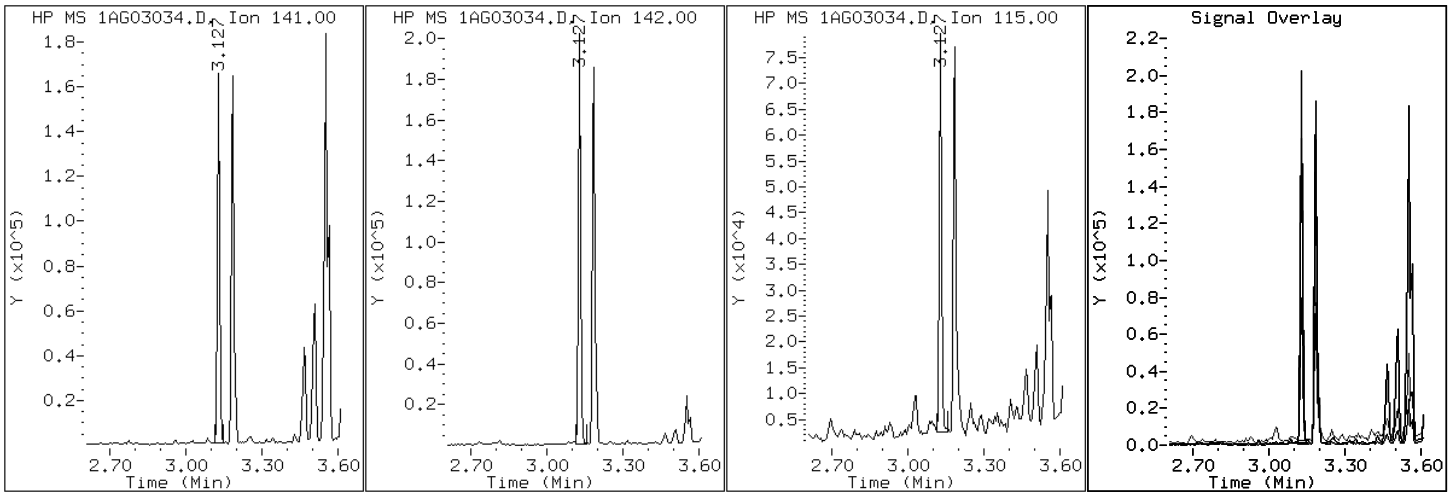
Data File: 1AG03034.D

Date: 03-JUL-2013 19:10

Client ID: CV1363I-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-14-A Operator: SCC

3 2-Methylnaphthalene



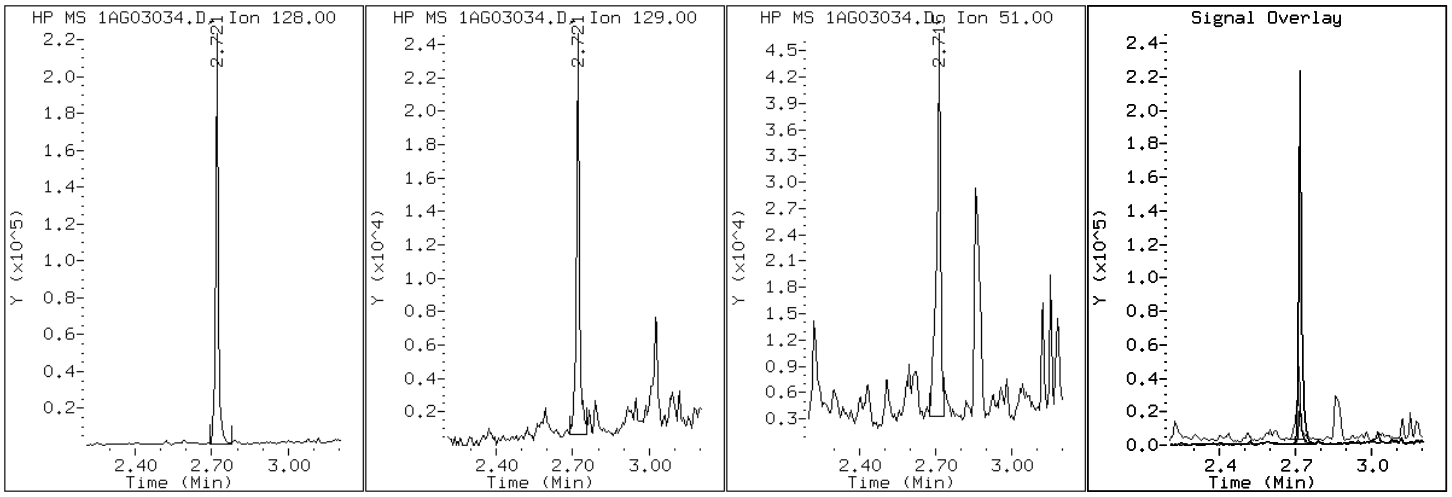
Data File: 1AG03034.D

Date: 03-JUL-2013 19:10

Client ID: CV1363I-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-14-A Operator: SCC

2 Naphthalene



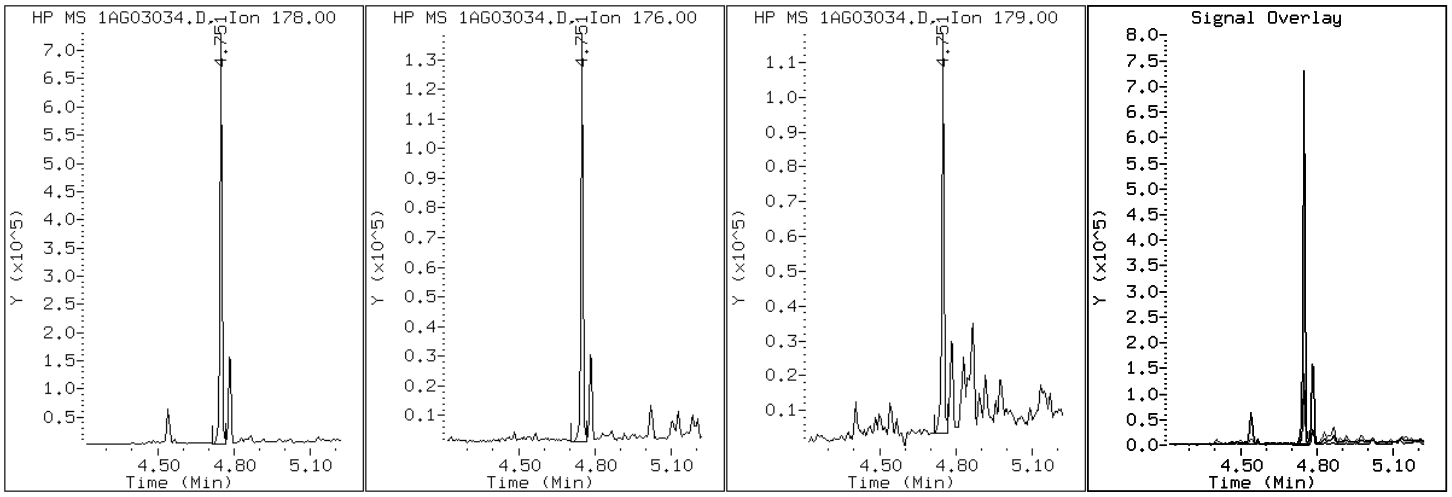
Data File: 1AG03034.D

Date: 03-JUL-2013 19:10

Client ID: CV1363I-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-14-A Operator: SCC

12 Phenanthrene



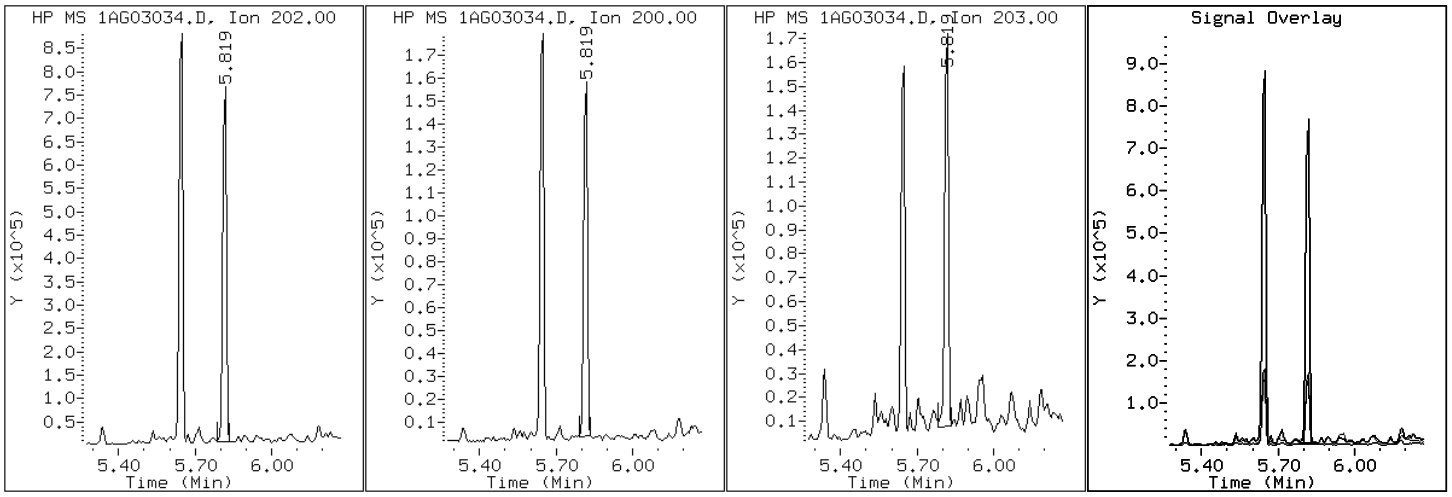
Data File: 1AG03034.D

Date: 03-JUL-2013 19:10

Client ID: CV1363I-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-14-A Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG03034.D
Inj. Date and Time: 03-JUL-2013 19:10
Instrument ID: BSMA5973.i
Client ID: CV1363I-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/08/2013

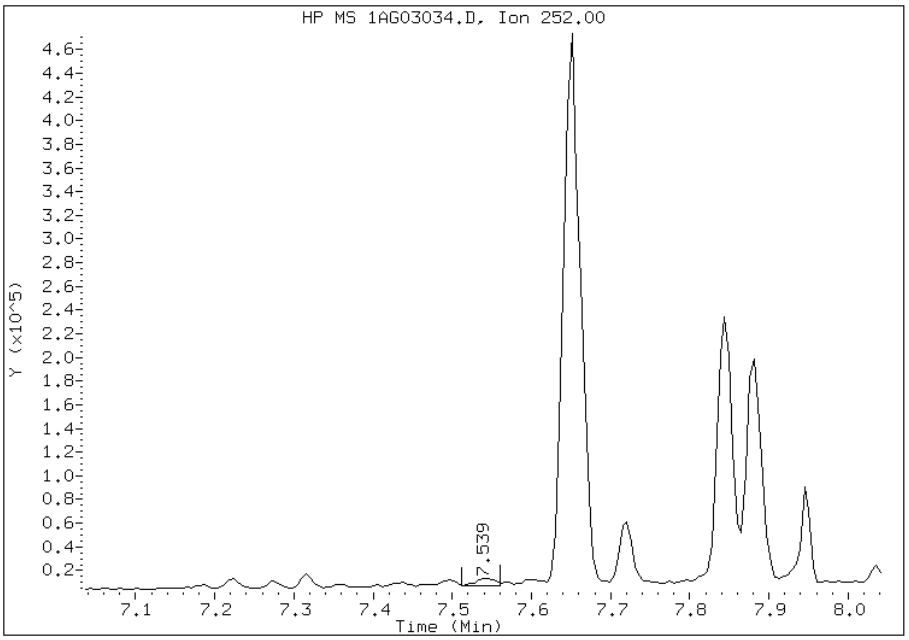
Processing Integration Results

RT: 7.54

Response: 10181

Amount: 0

Conc: 8



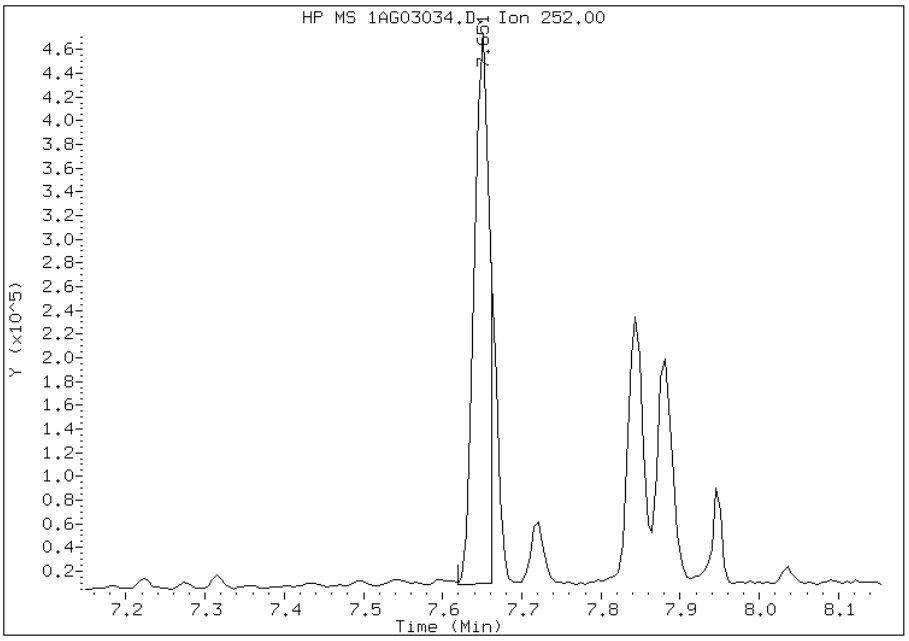
Manual Integration Results

RT: 7.65

Response: 619134

Amount: 6

Conc: 485



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:50
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG03034.D
Inj. Date and Time: 03-JUL-2013 19:10
Instrument ID: BSMA5973.i
Client ID: CV1363I-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/08/2013

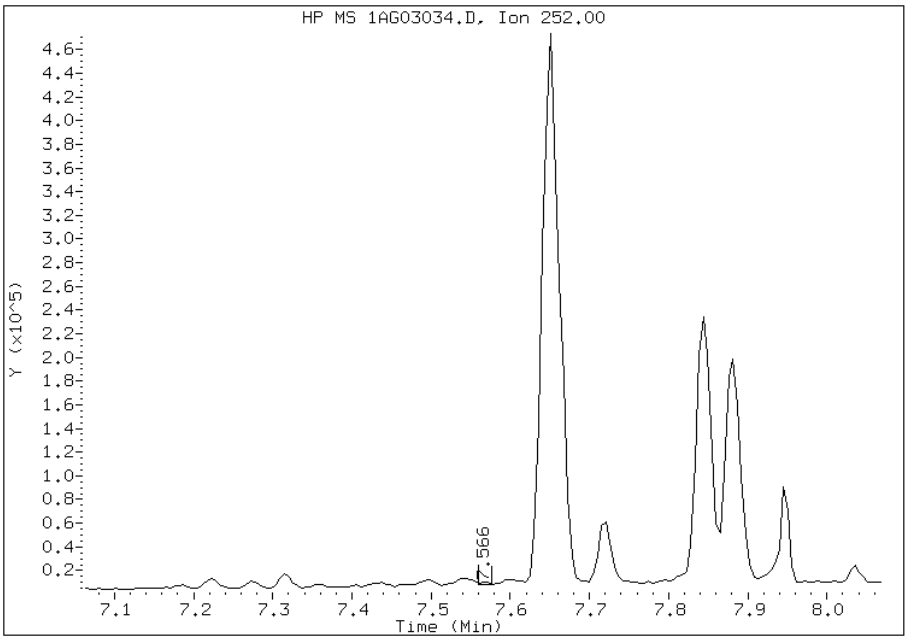
Processing Integration Results

RT: 7.57

Response: 1550

Amount: 0

Conc: 15



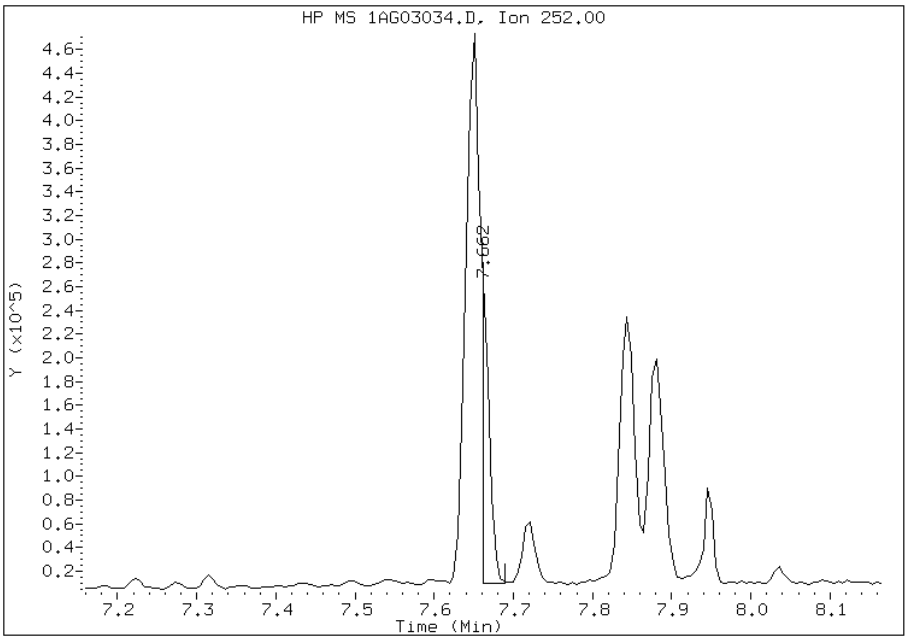
Manual Integration Results

RT: 7.66

Response: 168584

Amount: 1

Conc: 117



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:50
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG03034.D
Inj. Date and Time: 03-JUL-2013 19:10
Instrument ID: BSMA5973.i
Client ID: CV1363I-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

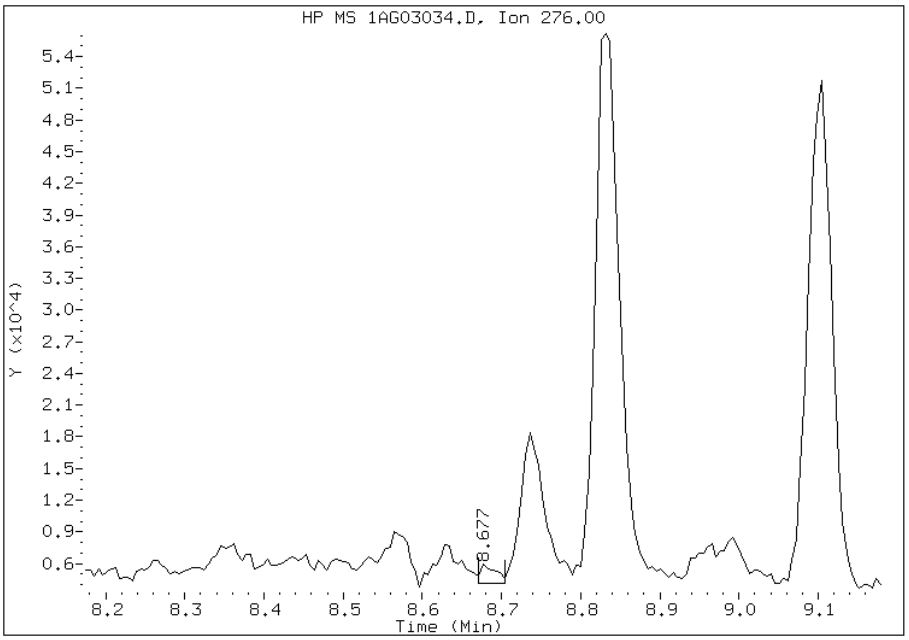
Processing Integration Results

RT: 8.68

Response: 2486

Amount: 0

Conc: 2



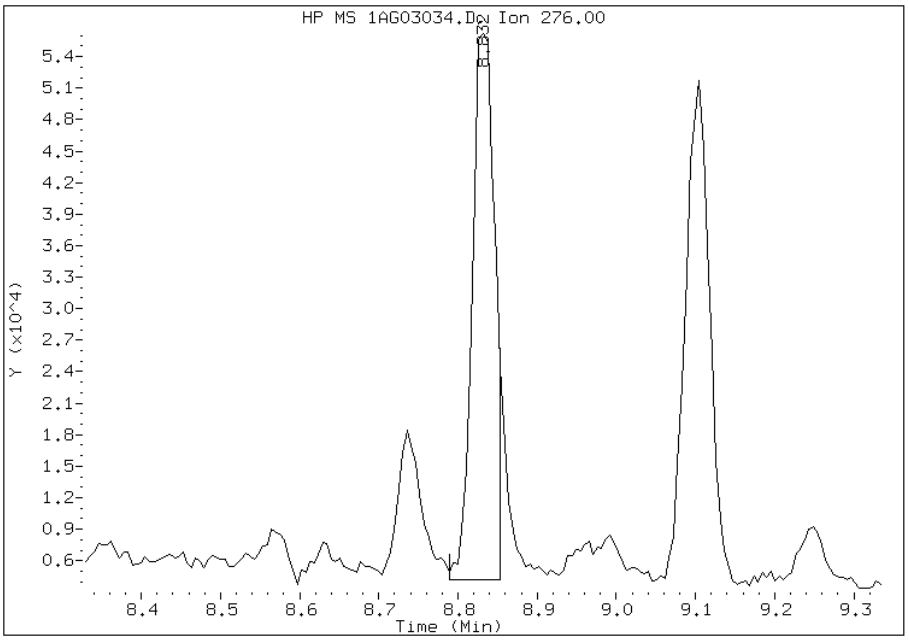
Manual Integration Results

RT: 8.83

Response: 102613

Amount: 1

Conc: 96



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:51
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363J-CS | Lab Sample ID: 680-91719-15

Matrix: Solid | Lab File ID: 1AG03035.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 08:03

Extract. Method: 3546 | Date Extracted: 07/02/2013 07:50

Sample wt/vol: 14.91(g) | Date Analyzed: 07/03/2013 19:25

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139084 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	54		47	5.9
120-12-7	Anthracene	88		9.9	5.0
56-55-3	Benzo[a]anthracene	250		9.4	4.6
50-32-8	Benzo[a]pyrene	230		12	6.1
205-99-2	Benzo[b]fluoranthene	410		14	7.2
191-24-2	Benzo[g,h,i]perylene	94		24	5.2
207-08-9	Benzo[k]fluoranthene	140		9.4	4.2
218-01-9	Chrysene	290		11	5.3
53-70-3	Dibenz(a,h)anthracene	42		24	4.8
206-44-0	Fluoranthene	410		24	4.7
86-73-7	Fluorene	24	U	24	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	100		24	8.4
90-12-0	1-Methylnaphthalene	90		47	5.2
91-57-6	2-Methylnaphthalene	100		47	8.4
91-20-3	Naphthalene	99		47	5.2
85-01-8	Phenanthrene	280		9.4	4.6
129-00-0	Pyrene	280		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	42		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03035.D
Lab Smp Id: 680-91719-A-15-A Client Smp ID: CV1363J-CS
Inj Date : 03-JUL-2013 19:25
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-A-15-A
Misc Info : 680-91719-A-15-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.910	Weight Extracted
M	14.661	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.709	2.689	(1.000)	3154845	40.0000	
* 7 Acenaphthene-d10	164	3.750	3.725	(1.000)	1896594	40.0000	
* 11 Phenanthrene-d10	188	4.739	4.703	(1.000)	2957489	40.0000	(H)
$ 15 o-Terphenyl	230	5.022	4.996	(1.060)	257926	4.17460	328.0868(H)
* 19 Chrysene-d12	240	6.822	6.759	(1.000)	4038059	40.0000	(H)
* 24 Perylene-d12	264	7.933	7.860	(1.000)	3035043	40.0000	(H)
2 Naphthalene	128	2.719	2.705	(1.004)	103772	1.25979	99.0086
3 2-Methylnaphthalene	141	3.125	3.105	(1.154)	74736	1.31226	103.1318
4 1-Methylnaphthalene	142	3.184	3.164	(1.176)	78507	1.14999	90.3788
6 Acenaphthylene	152	3.660	3.634	(0.976)	72212	0.68351	53.7176
12 Phenanthrene	178	4.749	4.719	(1.002)	379381	3.55161	279.1252(H)
13 Anthracene	178	4.781	4.756	(1.009)	117743	1.11530	87.6529(H)
16 Fluoranthene	202	5.641	5.600	(1.191)	662513	5.27638	414.6774(H)
17 Pyrene	202	5.818	5.771	(0.853)	586989	3.60558	283.3665(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
18 Benzo(a)anthracene	228	6.806	6.743	(0.998)	453245	3.24033	254.6612(H)
20 Chrysene	228	6.833	6.781	(1.002)	494056	3.73534	293.5648(H)
21 Benzo(b)fluoranthene	252	7.645	7.577	(0.964)	498137	5.18569	407.5497(MH)
22 Benzo(k)fluoranthene	252	7.655	7.598	(0.965)	200394	1.82044	143.0707(QMH)
23 Benzo(a)pyrene	252	7.880	7.812	(0.993)	259151	2.88665	226.8654(H)
25 Indeno(1,2,3-cd)pyrene	276	8.831	8.715	(1.113)	103519	1.29171	101.5173(MH)
26 Dibenzo(a,h)anthracene	278	8.847	8.741	(1.115)	42315	0.53285	41.8774(H)
27 Benzo(g,h,i)perylene	276	9.098	8.966	(1.147)	102543	1.20161	94.4360(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG03035.D

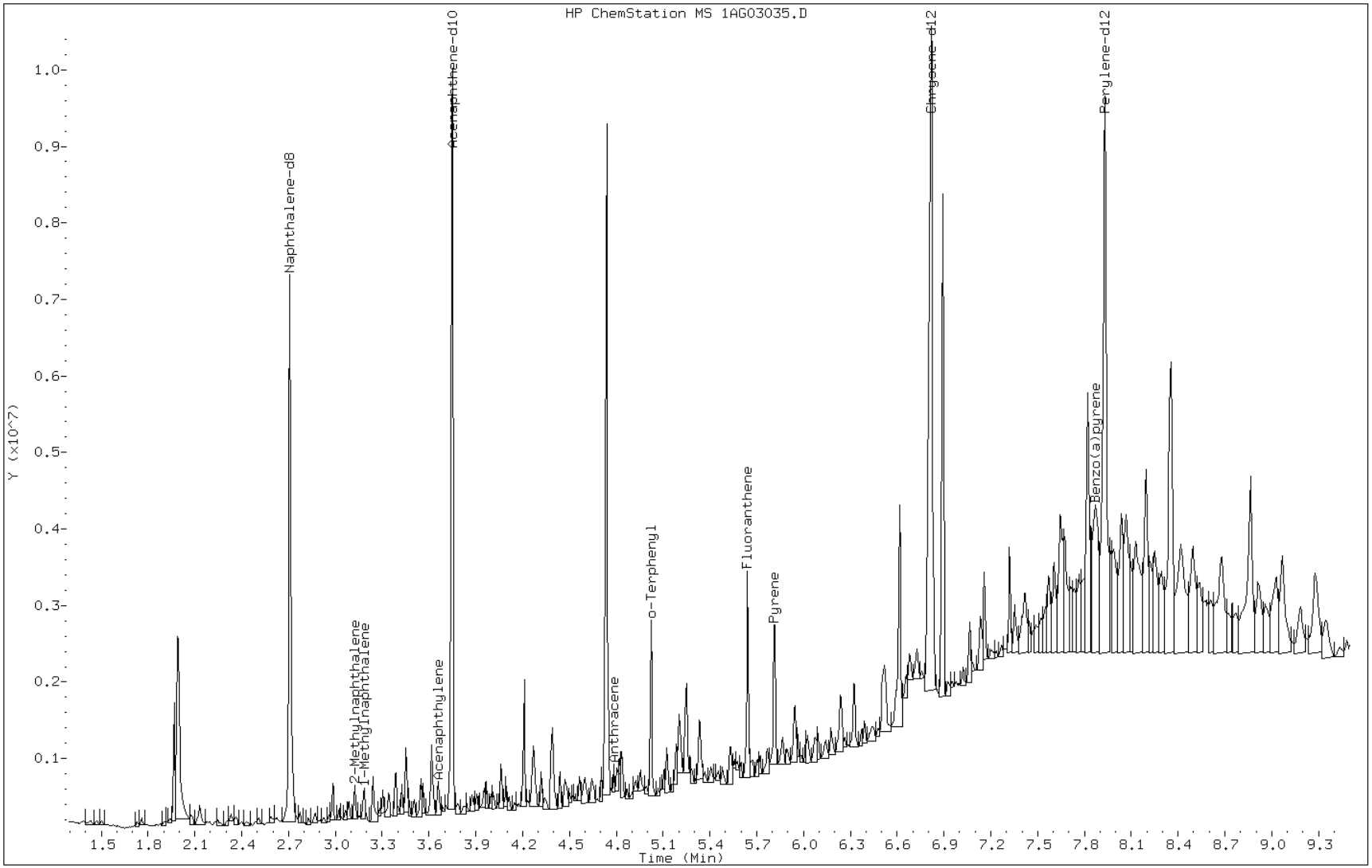
Date: 03-JUL-2013 19:25

Client ID: CV1363J-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-15-A

Operator: SCC



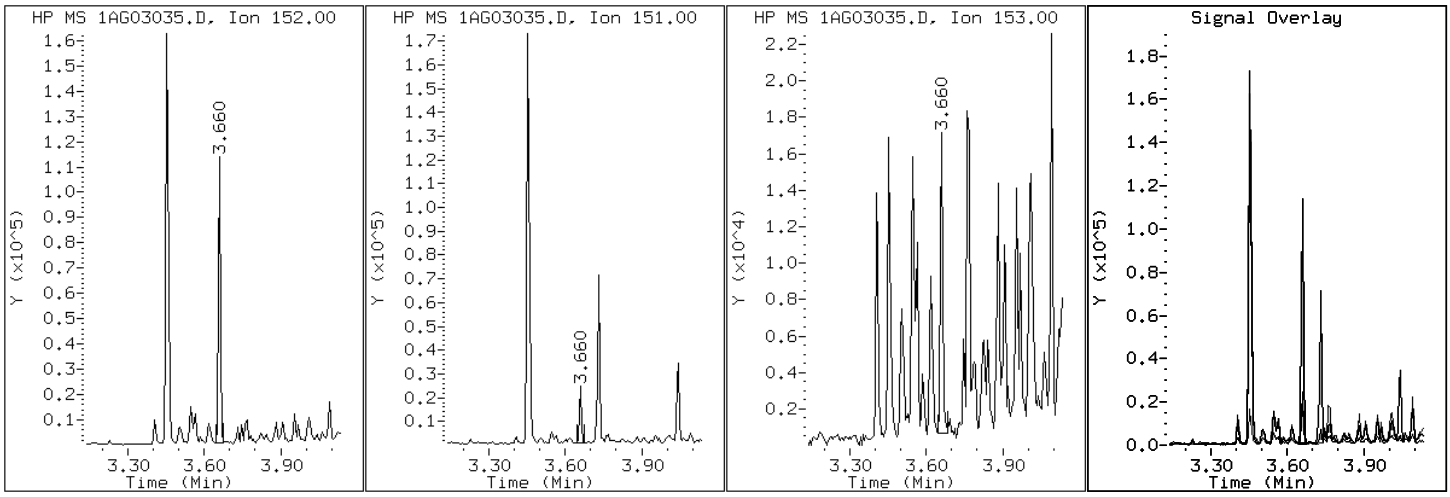
Data File: 1AG03035.D

Date: 03-JUL-2013 19:25

Client ID: CV1363J-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-15-A Operator: SCC

6 Acenaphthylene



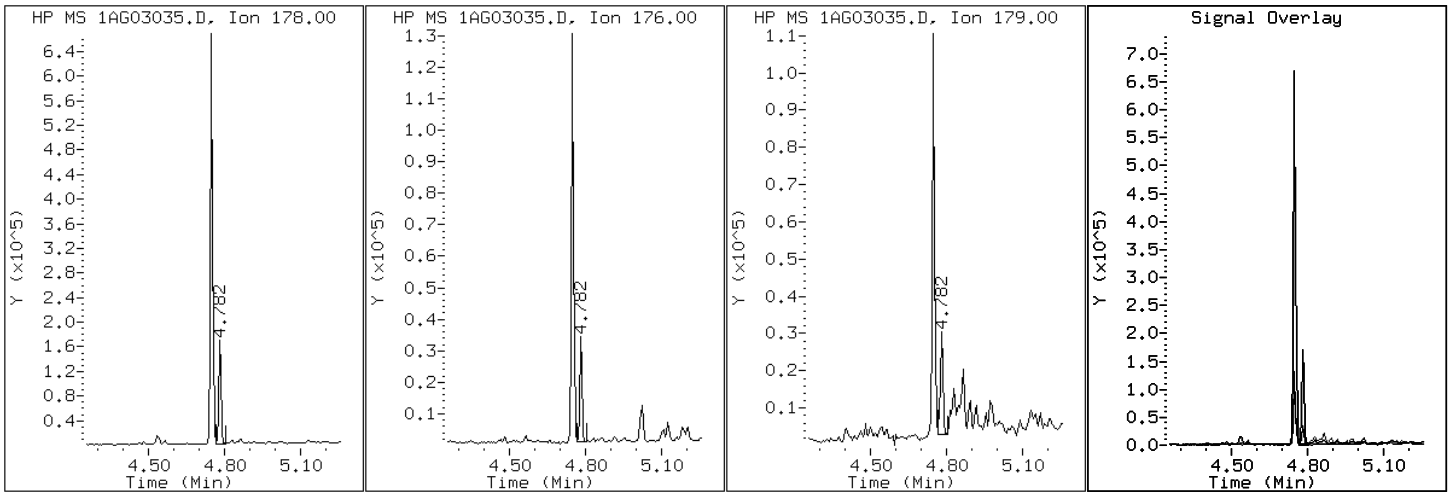
Data File: 1AG03035.D

Date: 03-JUL-2013 19:25

Client ID: CV1363J-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-15-A Operator: SCC

13 Anthracene



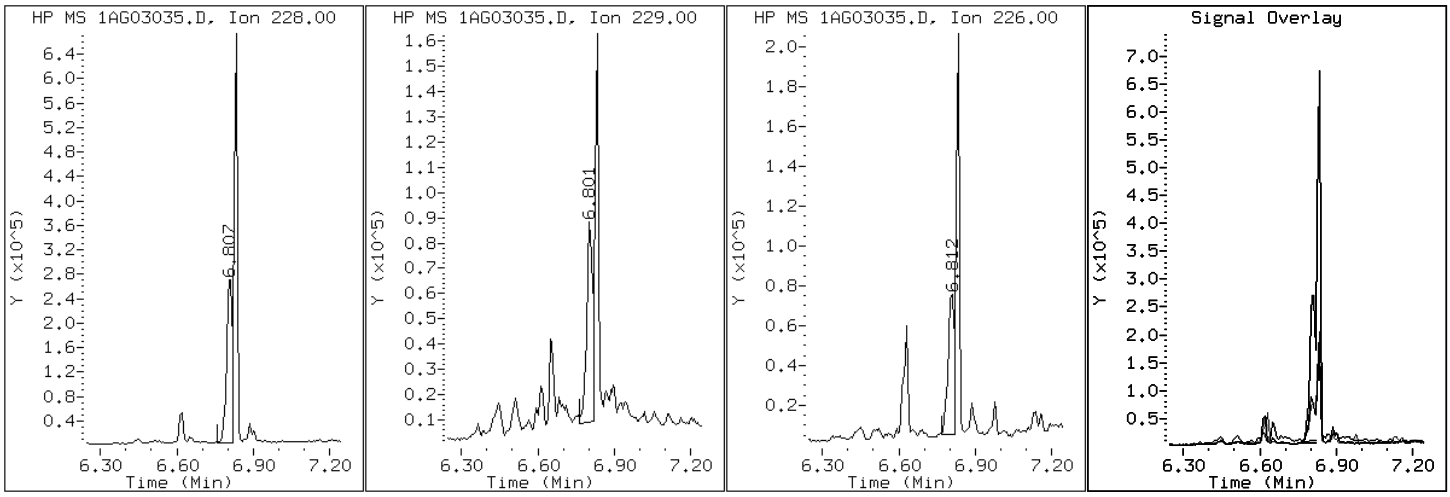
Data File: 1AG03035.D

Date: 03-JUL-2013 19:25

Client ID: CV1363J-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-15-A Operator: SCC

18 Benzo(a)anthracene



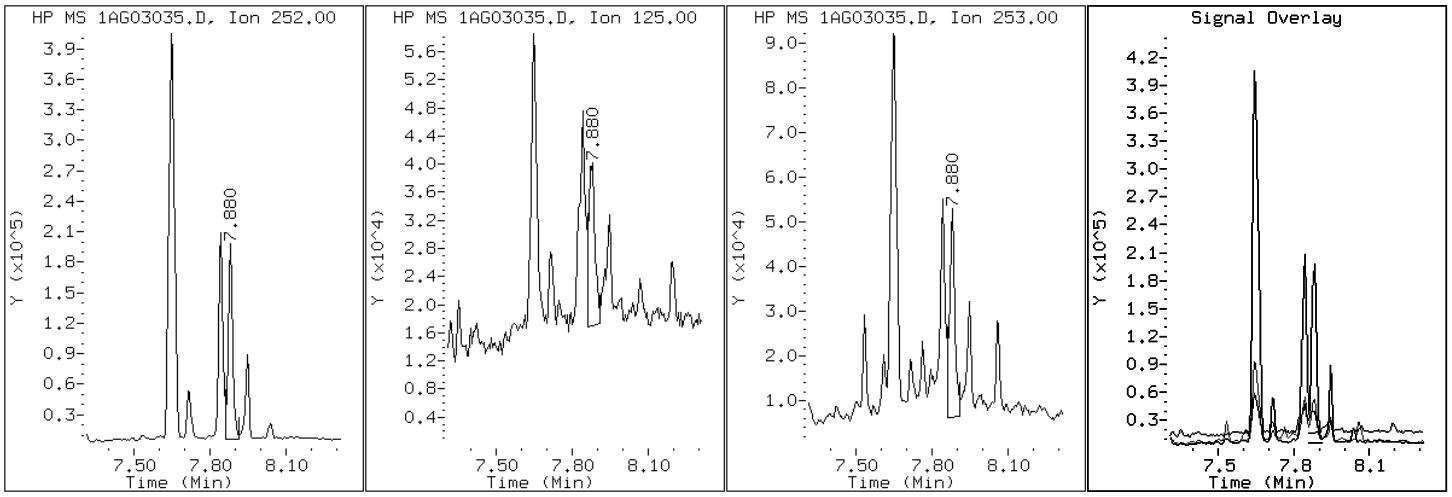
Data File: 1AG03035.D

Date: 03-JUL-2013 19:25

Client ID: CV1363J-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-15-A Operator: SCC

23 Benzo(a)pyrene



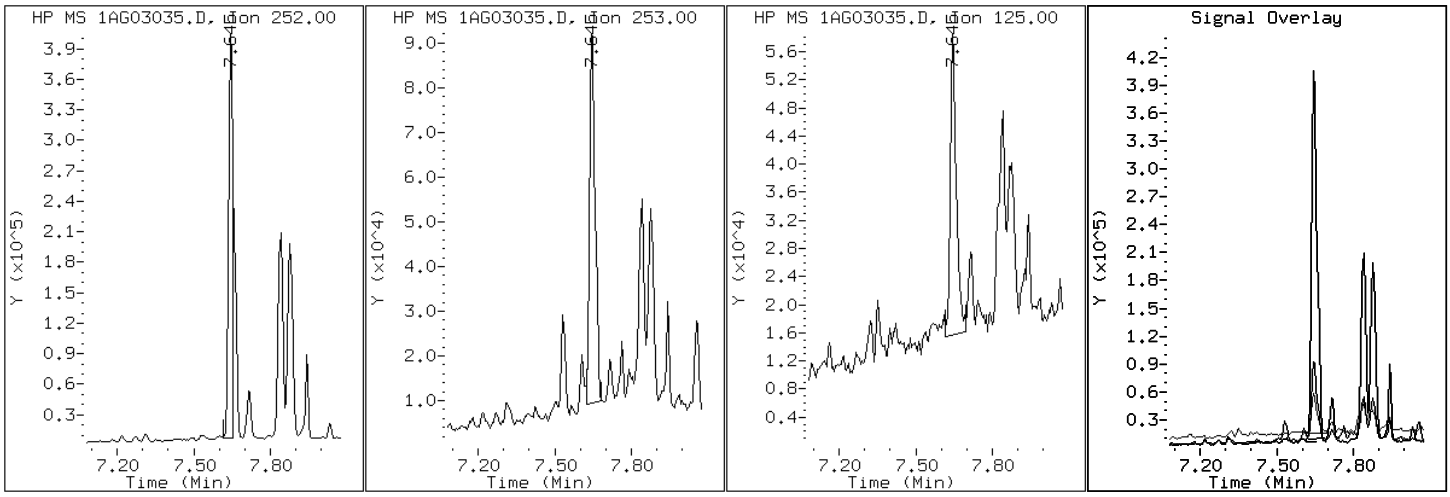
Data File: 1AG03035.D

Date: 03-JUL-2013 19:25

Client ID: CV1363J-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-15-A Operator: SCC

21 Benzo(b)fluoranthene



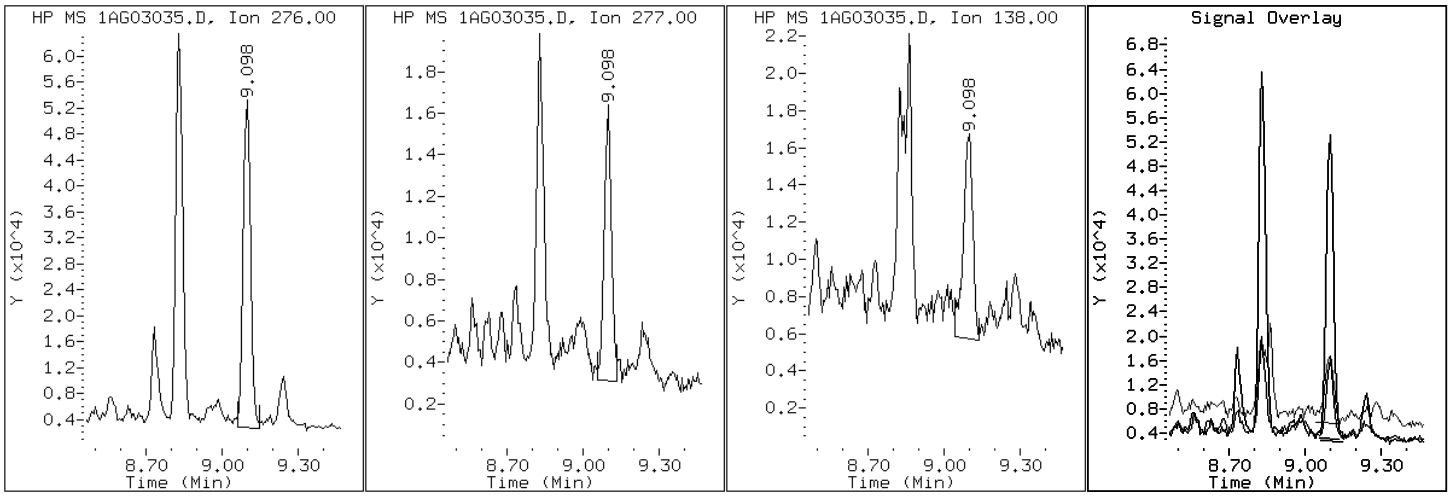
Data File: 1AG03035.D

Date: 03-JUL-2013 19:25

Client ID: CV1363J-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-15-A Operator: SCC

27 Benzo(g,h,i)perylene



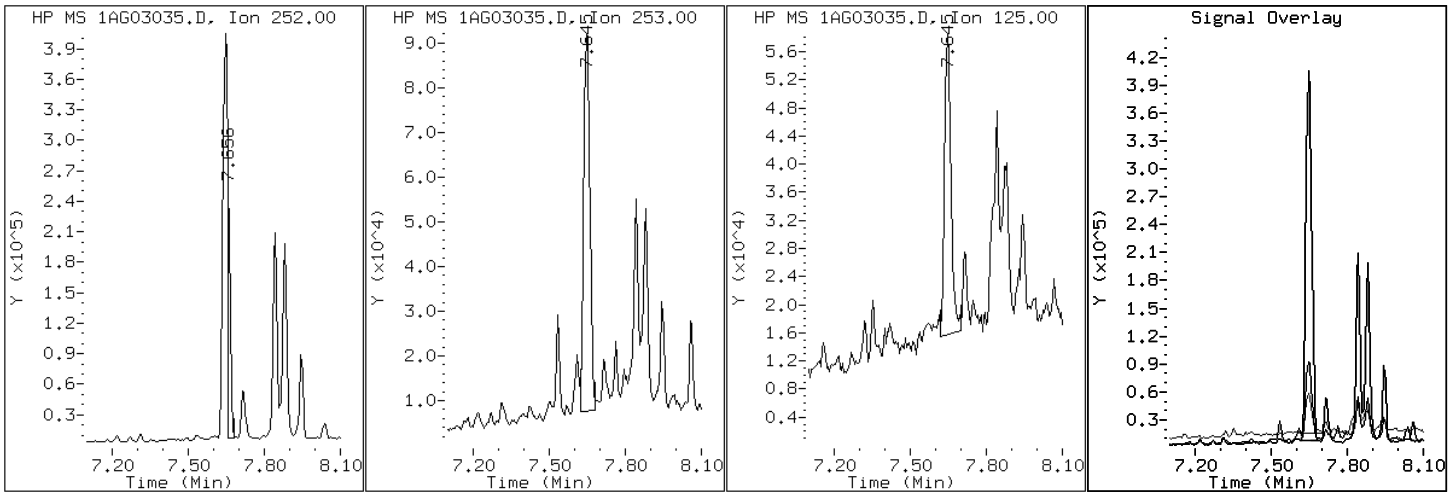
Data File: 1AG03035.D

Date: 03-JUL-2013 19:25

Client ID: CV1363J-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-15-A Operator: SCC

22 Benzo(k)fluoranthene



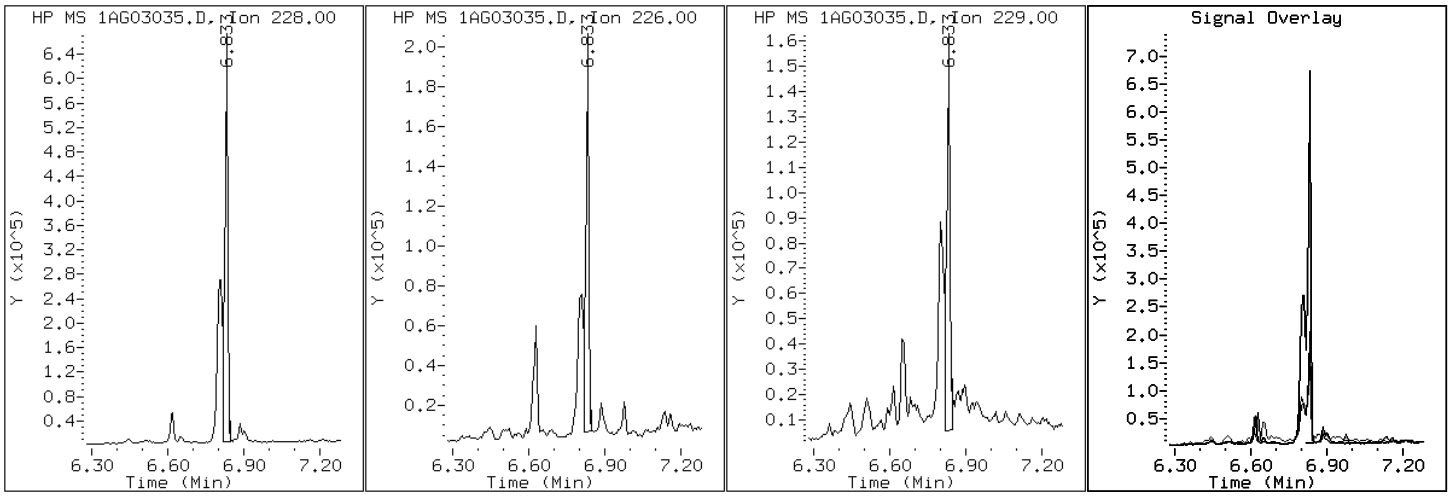
Data File: 1AG03035.D

Date: 03-JUL-2013 19:25

Client ID: CV1363J-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-15-A Operator: SCC

20 Chrysene



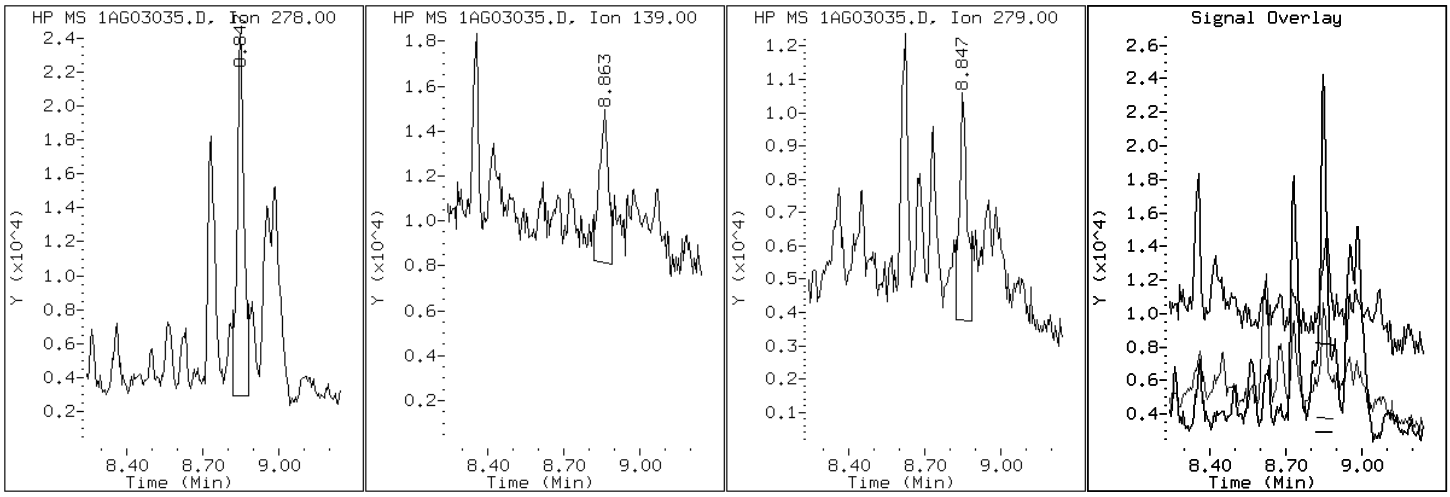
Data File: 1AG03035.D

Date: 03-JUL-2013 19:25

Client ID: CV1363J-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-15-A Operator: SCC

26 Dibenzo(a,h)anthracene



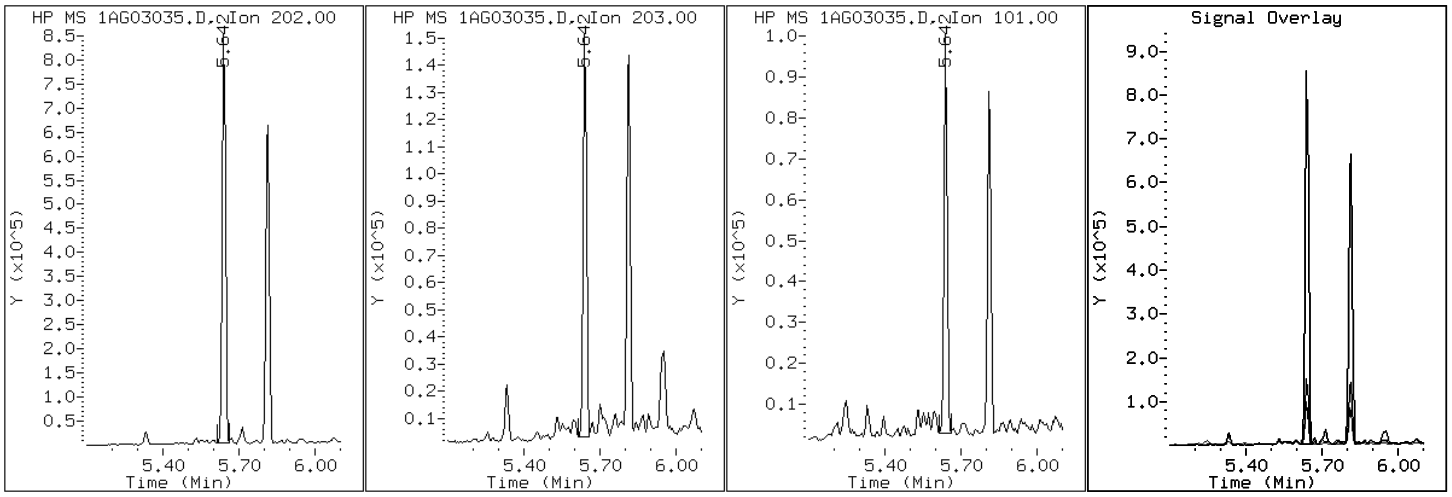
Data File: 1AG03035.D

Date: 03-JUL-2013 19:25

Client ID: CV1363J-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-15-A Operator: SCC

16 Fluoranthene



Data File: 1AG03035.D

Date: 03-JUL-2013 19:25

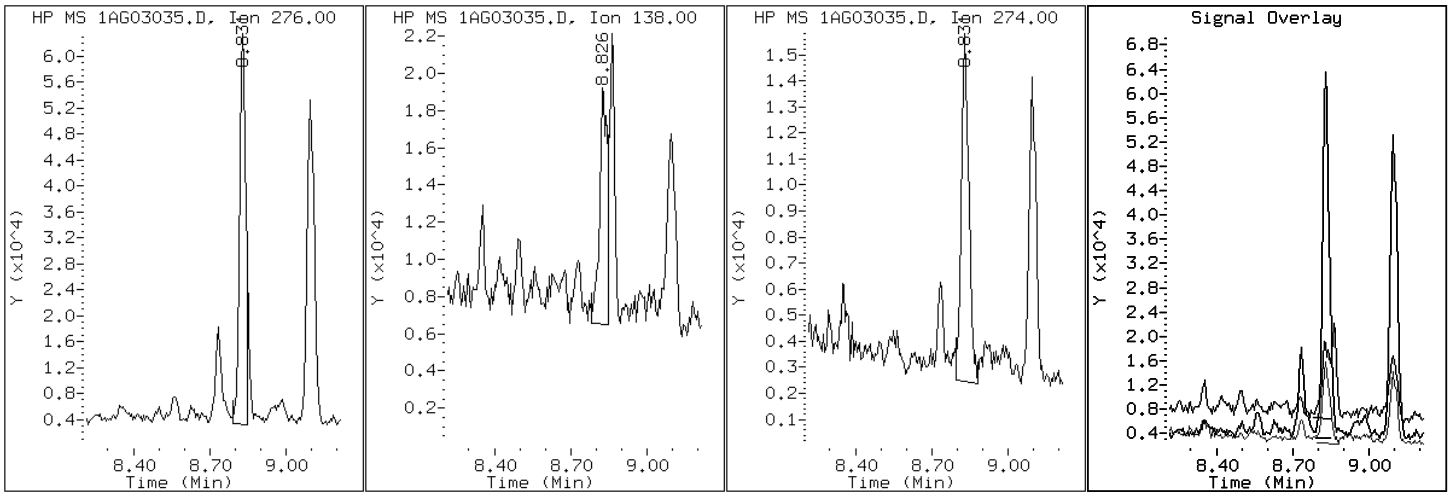
Client ID: CV1363J-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-15-A

Operator: SCC

25 Indeno(1,2,3-cd)pyrene



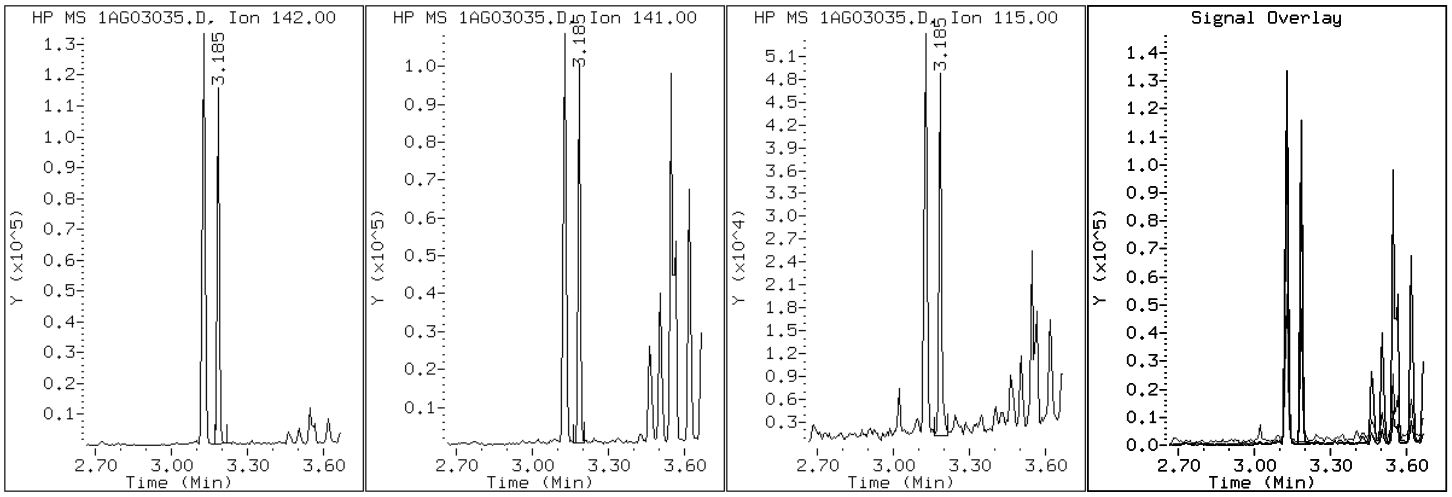
Data File: 1AG03035.D

Date: 03-JUL-2013 19:25

Client ID: CV1363J-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-15-A Operator: SCC

4 1-Methylnaphthalene



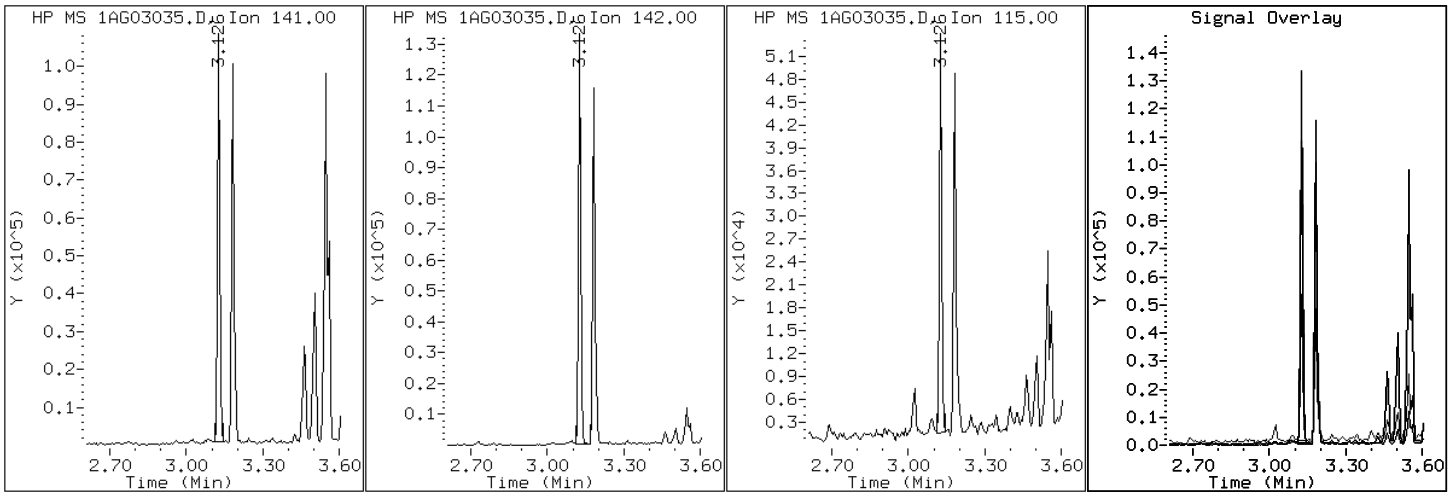
Data File: 1AG03035.D

Date: 03-JUL-2013 19:25

Client ID: CV1363J-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-15-A Operator: SCC

3 2-Methylnaphthalene



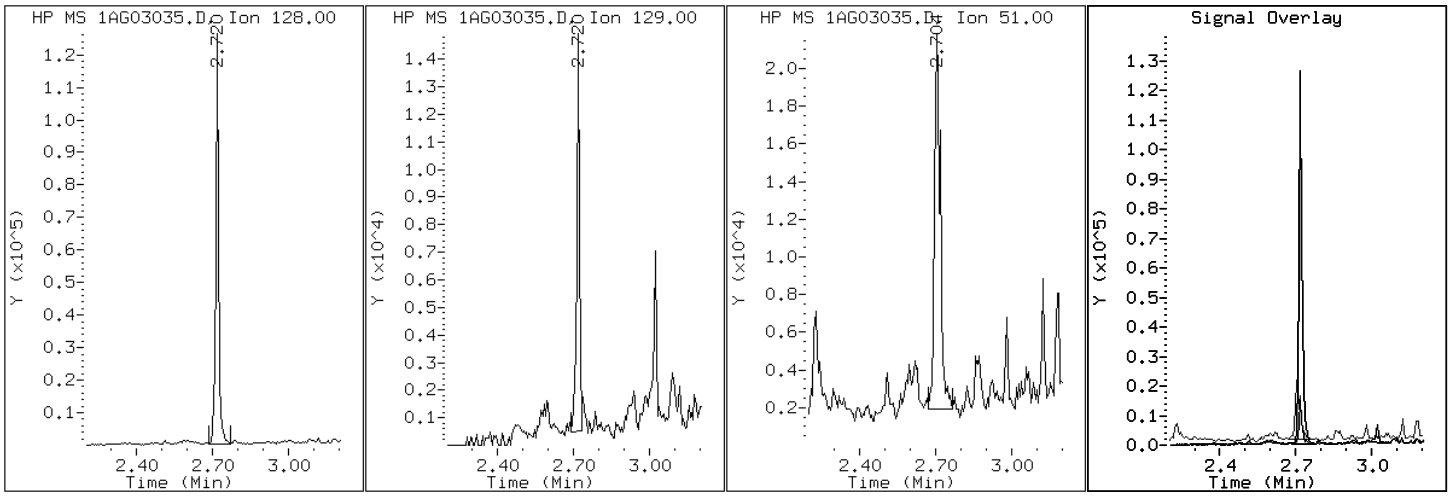
Data File: 1AG03035.D

Date: 03-JUL-2013 19:25

Client ID: CV1363J-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-15-A Operator: SCC

2 Naphthalene



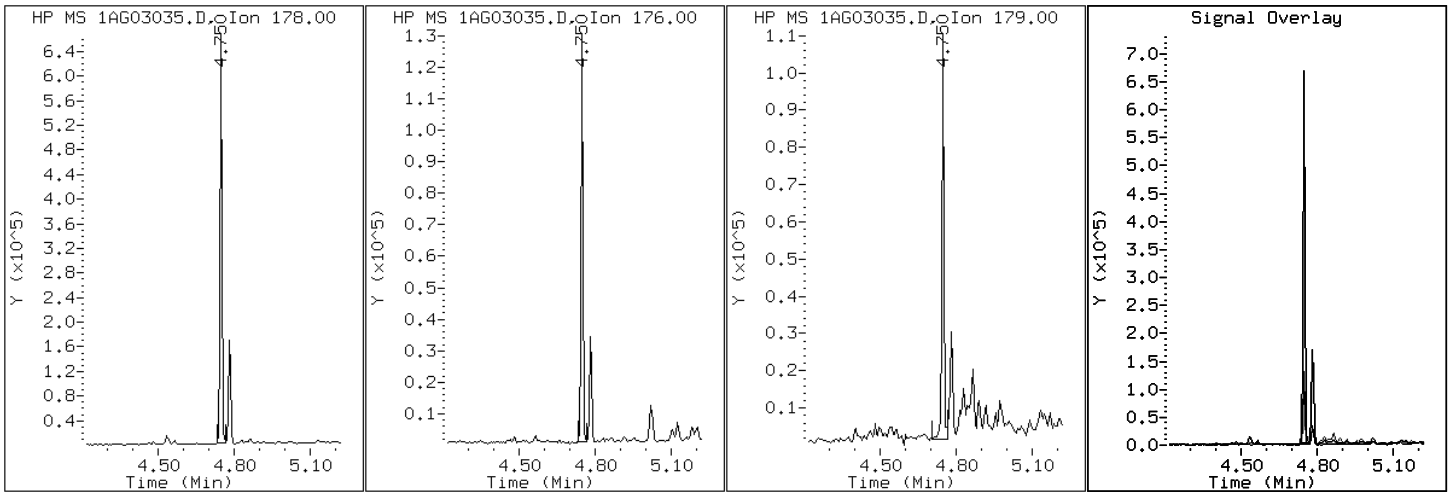
Data File: 1AG03035.D

Date: 03-JUL-2013 19:25

Client ID: CV1363J-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-15-A Operator: SCC

12 Phenanthrene



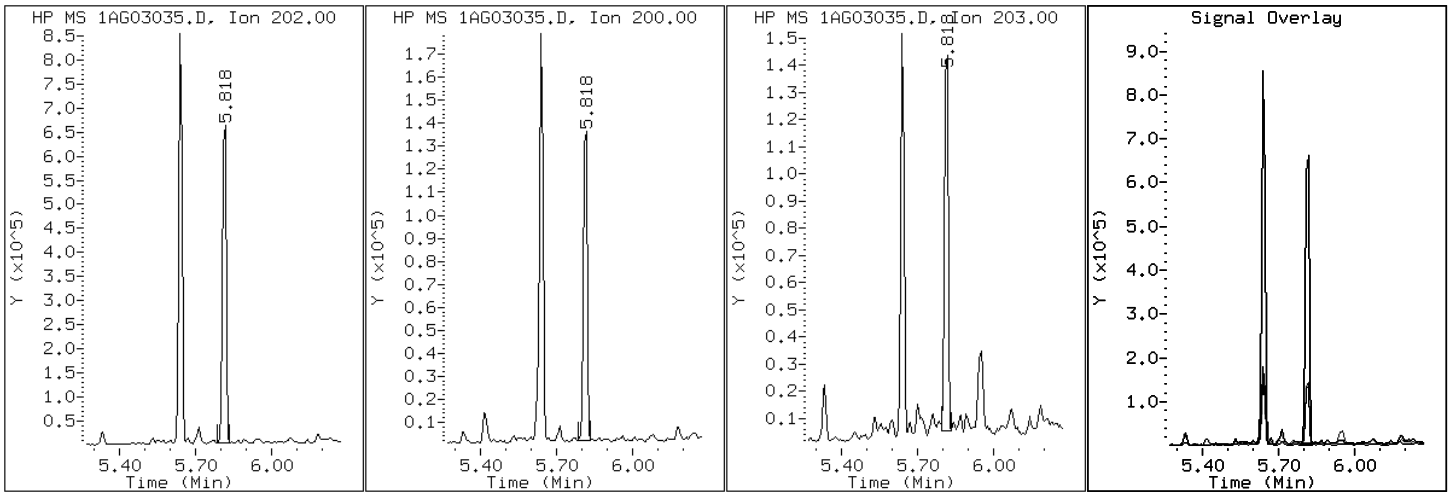
Data File: 1AG03035.D

Date: 03-JUL-2013 19:25

Client ID: CV1363J-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-15-A Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG03035.D
Inj. Date and Time: 03-JUL-2013 19:25
Instrument ID: BSMA5973.i
Client ID: CV1363J-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/08/2013

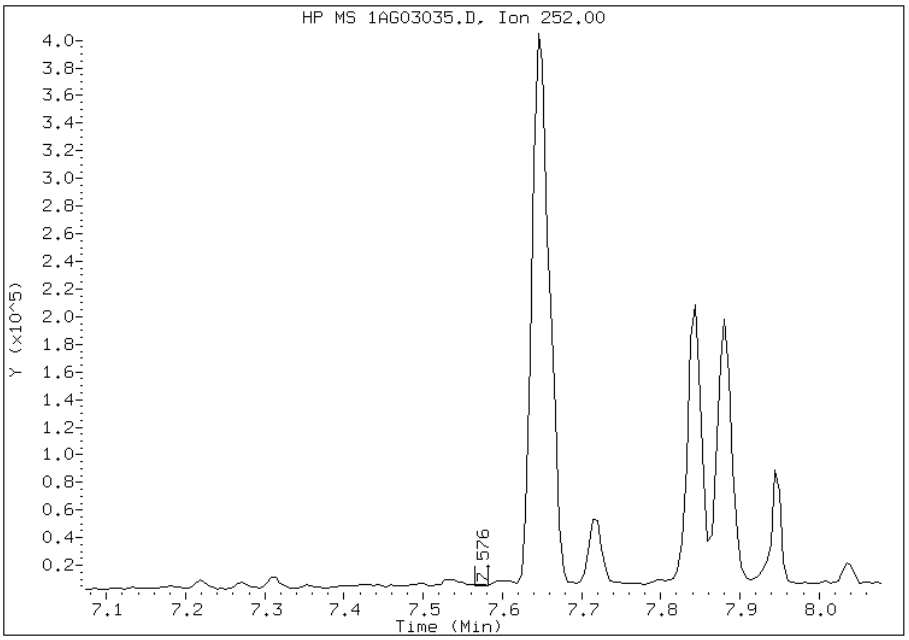
Processing Integration Results

RT: 7.58

Response: 336

Amount: 0

Conc: 0



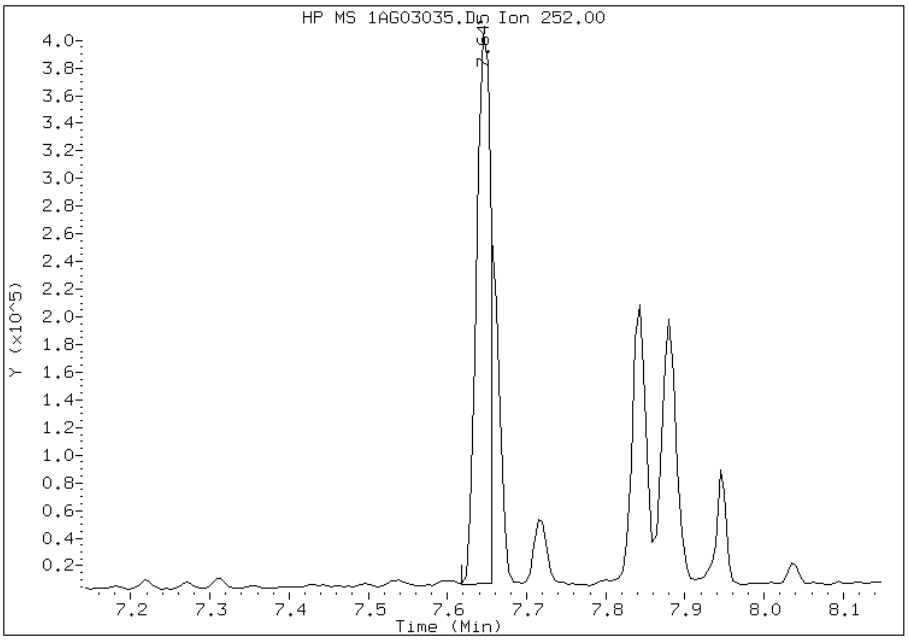
Manual Integration Results

RT: 7.65

Response: 498137

Amount: 5

Conc: 408



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:52
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG03035.D
Inj. Date and Time: 03-JUL-2013 19:25
Instrument ID: BSMA5973.i
Client ID: CV1363J-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/08/2013

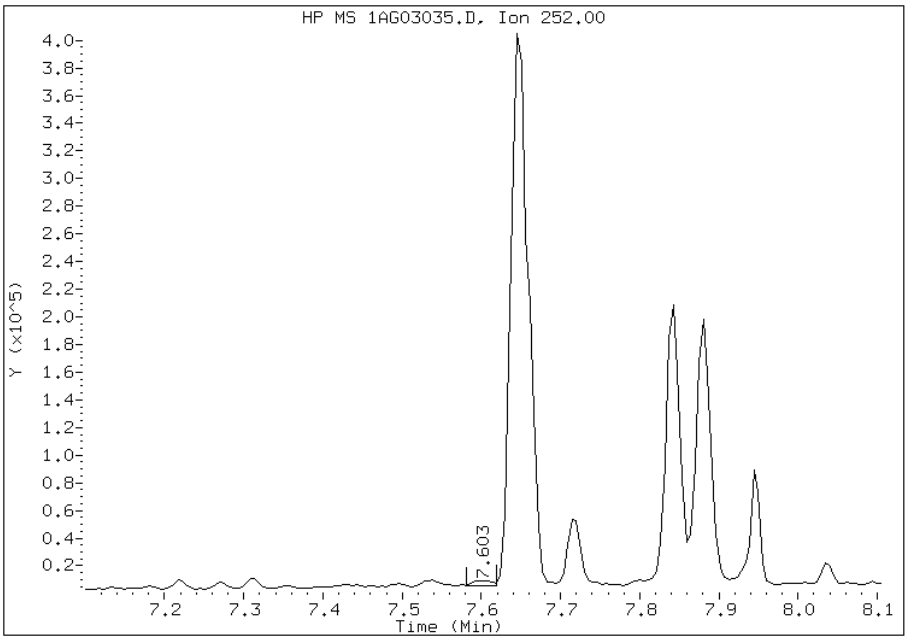
Processing Integration Results

RT: 7.60

Response: 5913

Amount: 0

Conc: 18



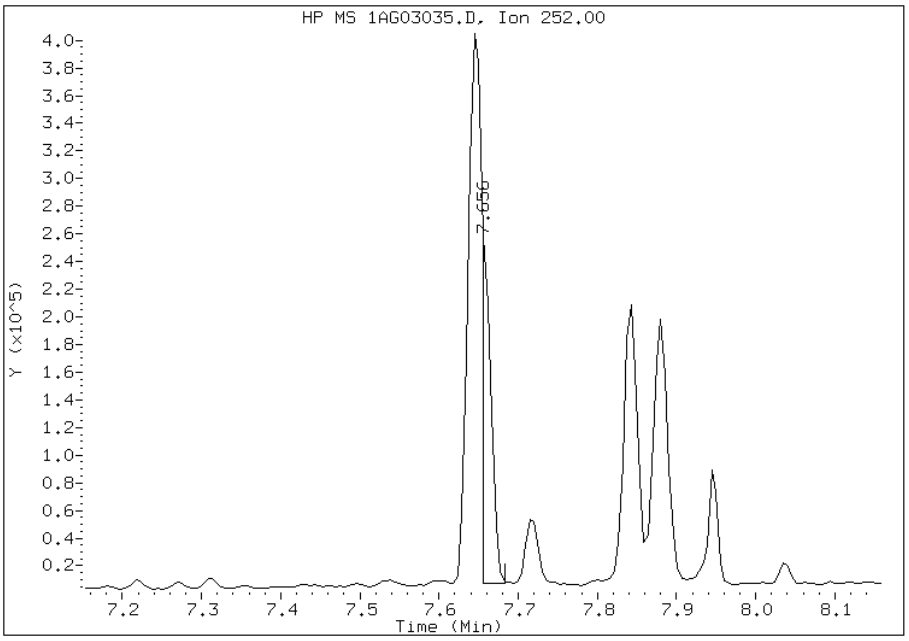
Manual Integration Results

RT: 7.66

Response: 200394

Amount: 2

Conc: 143



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG03035.D
Inj. Date and Time: 03-JUL-2013 19:25
Instrument ID: BSMA5973.i
Client ID: CV1363J-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

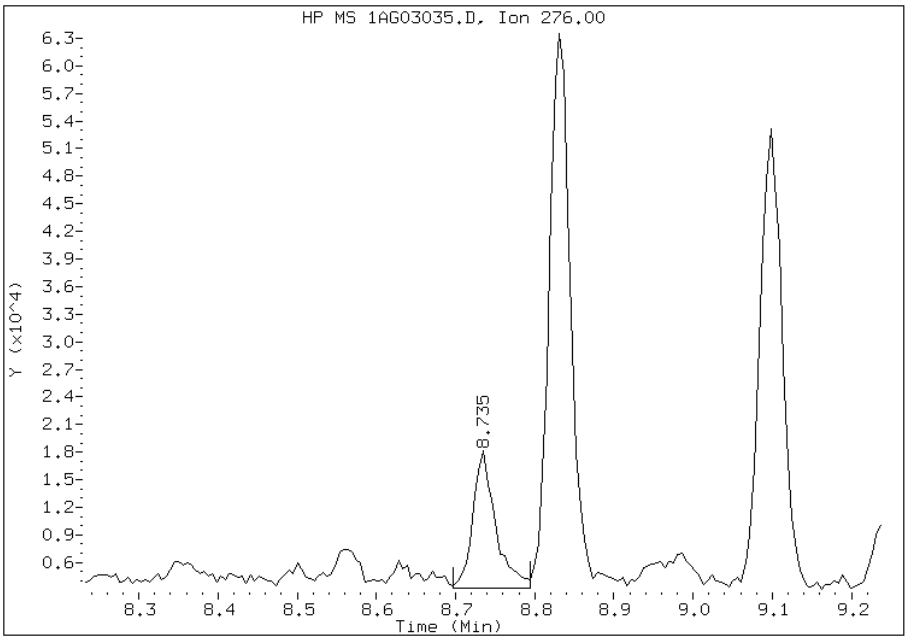
Processing Integration Results

RT: 8.74

Response: 29435

Amount: 0

Conc: 29



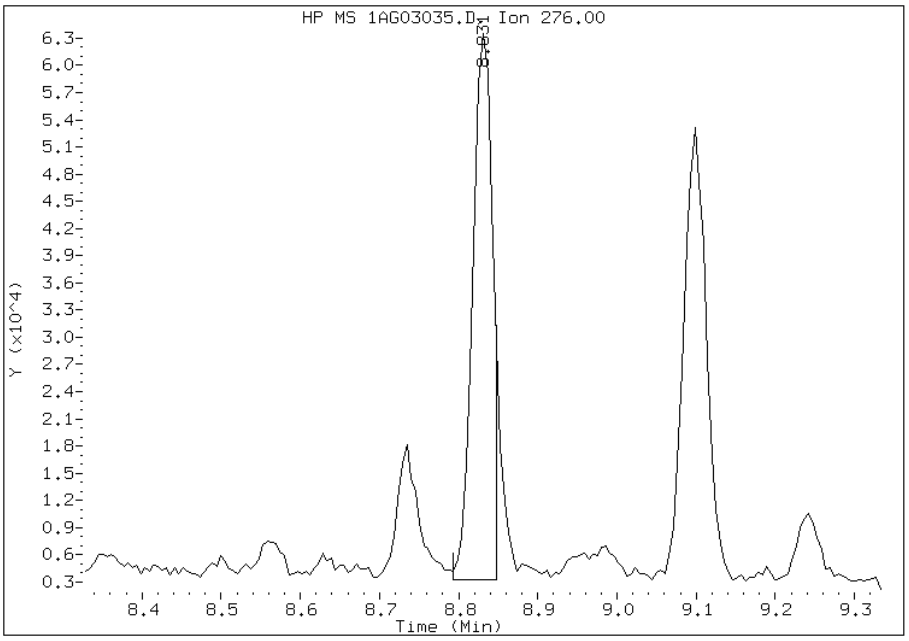
Manual Integration Results

RT: 8.83

Response: 103519

Amount: 1

Conc: 102



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:53
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363J-CSD | Lab Sample ID: 680-91719-16

Matrix: Solid | Lab File ID: 1AG03036.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 08:03

Extract. Method: 3546 | Date Extracted: 07/02/2013 07:50

Sample wt/vol: 15.20(g) | Date Analyzed: 07/03/2013 19:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139084 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	23
208-96-8	Acenaphthylene	47		46	5.8
120-12-7	Anthracene	72		9.7	4.9
56-55-3	Benzo[a]anthracene	220		9.3	4.5
50-32-8	Benzo[a]pyrene	210		12	6.0
205-99-2	Benzo[b]fluoranthene	390		14	7.1
191-24-2	Benzo[g,h,i]perylene	83		23	5.1
207-08-9	Benzo[k]fluoranthene	110		9.3	4.2
218-01-9	Chrysene	250		10	5.2
53-70-3	Dibenz(a,h)anthracene	44		23	4.7
206-44-0	Fluoranthene	330		23	4.6
86-73-7	Fluorene	23	U	23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	93		23	8.2
90-12-0	1-Methylnaphthalene	93		46	5.1
91-57-6	2-Methylnaphthalene	120		46	8.2
91-20-3	Naphthalene	110		46	5.1
85-01-8	Phenanthrene	210		9.3	4.5
129-00-0	Pyrene	230		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	40		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03036.D
Lab Smp Id: 680-91719-A-16-A Client Smp ID: CV1363J-CSD
Inj Date : 03-JUL-2013 19:40
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-A-16-A
Misc Info : 680-91719-A-16-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 35
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.200	Weight Extracted
M	14.799	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.710	2.689	(1.000)	2890124	40.0000	
* 7 Acenaphthene-d10	164	3.746	3.725	(1.000)	1785717	40.0000	(H)
* 11 Phenanthrene-d10	188	4.740	4.703	(1.000)	2897347	40.0000	
$ 15 o-Terphenyl	230	5.023	4.996	(1.060)	243974	4.01947	310.3710
* 19 Chrysene-d12	240	6.818	6.759	(1.000)	3955753	40.0000	(H)
* 24 Perylene-d12	264	7.939	7.860	(1.000)	2959821	40.0000	(H)
2 Naphthalene	128	2.720	2.705	(1.004)	110810	1.46845	113.3892
3 2-Methylnaphthalene	141	3.126	3.105	(1.154)	79989	1.52001	117.3704
4 1-Methylnaphthalene	142	3.185	3.164	(1.175)	75177	1.19911	92.5912
6 Acenaphthylene	152	3.660	3.634	(0.977)	57223	0.61096	47.1765(H)
12 Phenanthrene	178	4.750	4.719	(1.002)	287589	2.72982	210.7879
13 Anthracene	178	4.782	4.756	(1.009)	92804	0.93317	72.0561
16 Fluoranthene	202	5.642	5.600	(1.190)	537268	4.32261	333.7782
17 Pyrene	202	5.813	5.771	(0.853)	467936	2.93410	226.5620(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
18 Benzo(a)anthracene	228	6.812	6.743	(0.999)	393406	2.86005	220.8440(H)
20 Chrysene	228	6.834	6.781	(1.002)	422686	3.26224	251.8997(H)
21 Benzo(b)fluoranthene	252	7.651	7.577	(0.964)	467422	4.98961	385.2821(MH)
22 Benzo(k)fluoranthene	252	7.662	7.598	(0.965)	153114	1.45782	112.5681(QMH)
23 Benzo(a)pyrene	252	7.886	7.812	(0.993)	236090	2.69661	208.2241(H)
25 Indeno(1,2,3-cd)pyrene	276	8.842	8.715	(1.114)	94169	1.20491	93.0392(MH)
26 Dibenzo(a,h)anthracene	278	8.864	8.741	(1.116)	43921	0.56713	43.7920(H)
27 Benzo(g,h,i)perylene	276	9.115	8.966	(1.148)	89806	1.07910	83.3249(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG03036.D

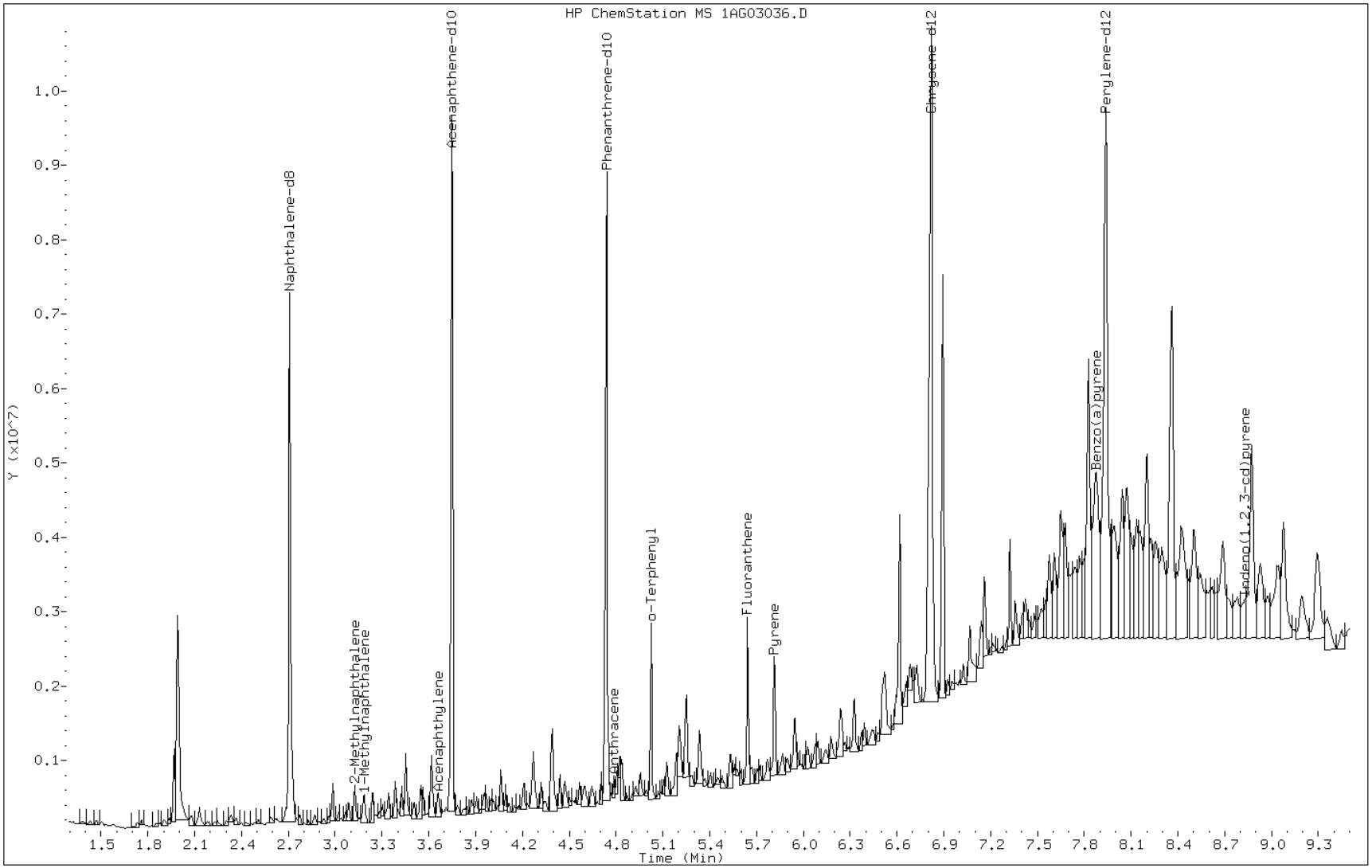
Date: 03-JUL-2013 19:40

Client ID: CV1363J-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-A-16-A

Operator: SCC



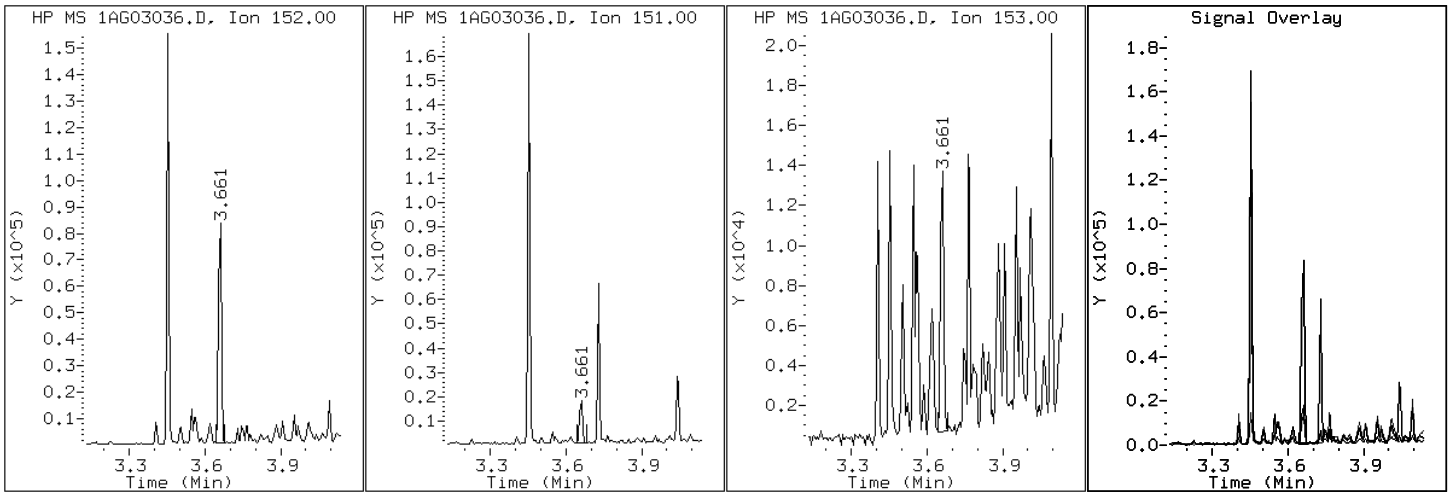
Data File: 1AG03036.D

Date: 03-JUL-2013 19:40

Client ID: CV1363J-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-16-A Operator: SCC

6 Acenaphthylene



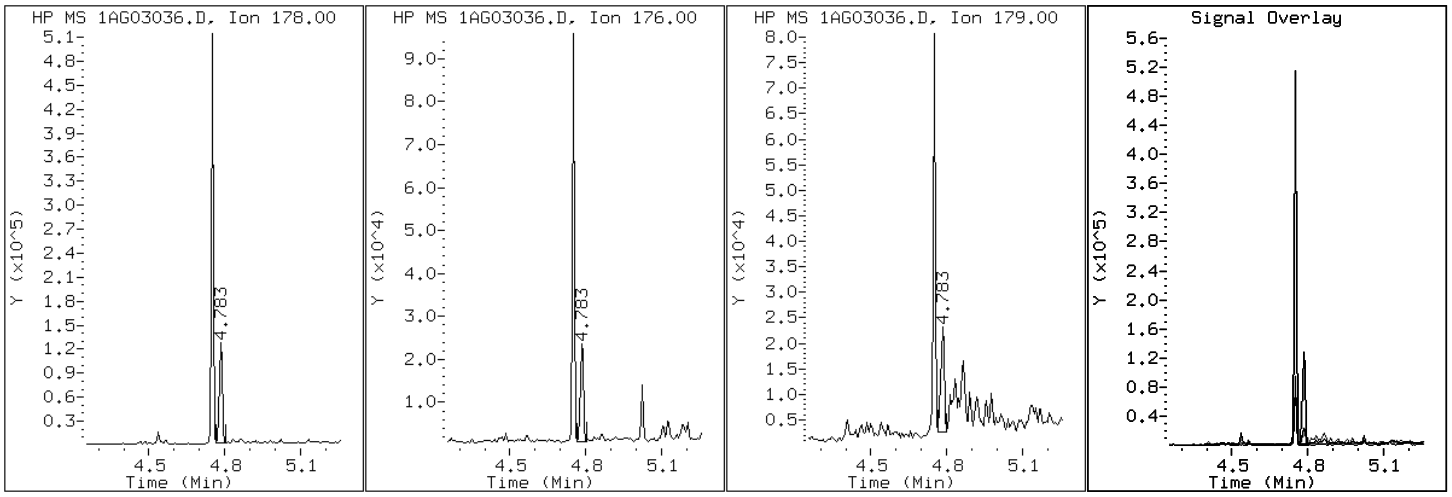
Data File: 1AG03036.D

Date: 03-JUL-2013 19:40

Client ID: CV1363J-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-16-A Operator: SCC

13 Anthracene



Data File: 1AG03036.D

Date: 03-JUL-2013 19:40

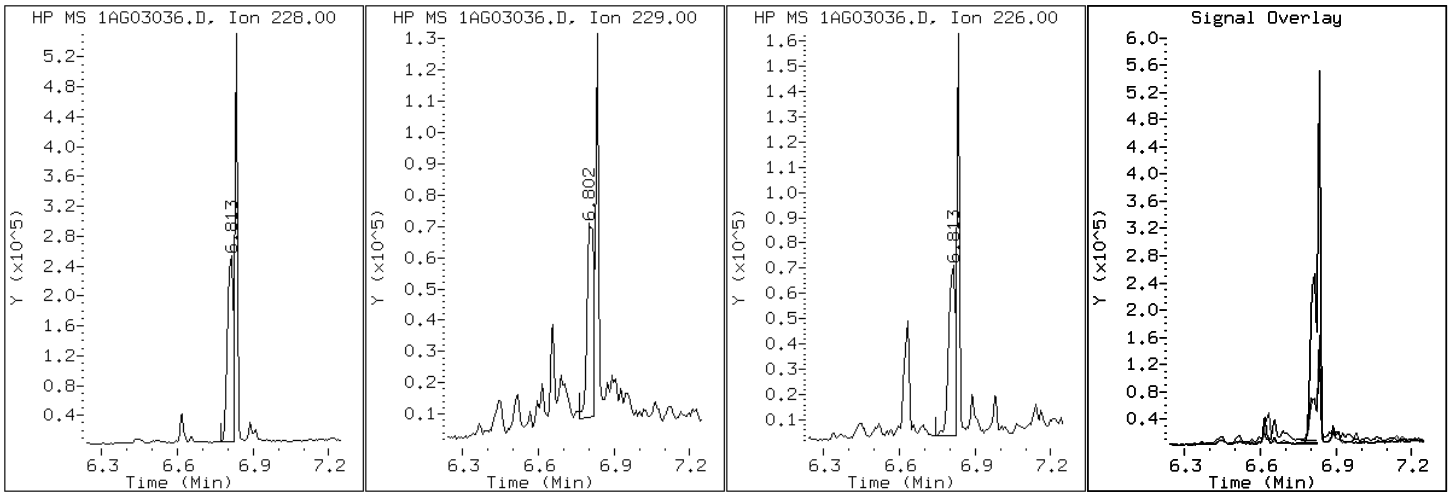
Client ID: CV1363J-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-A-16-A

Operator: SCC

18 Benzo(a)anthracene



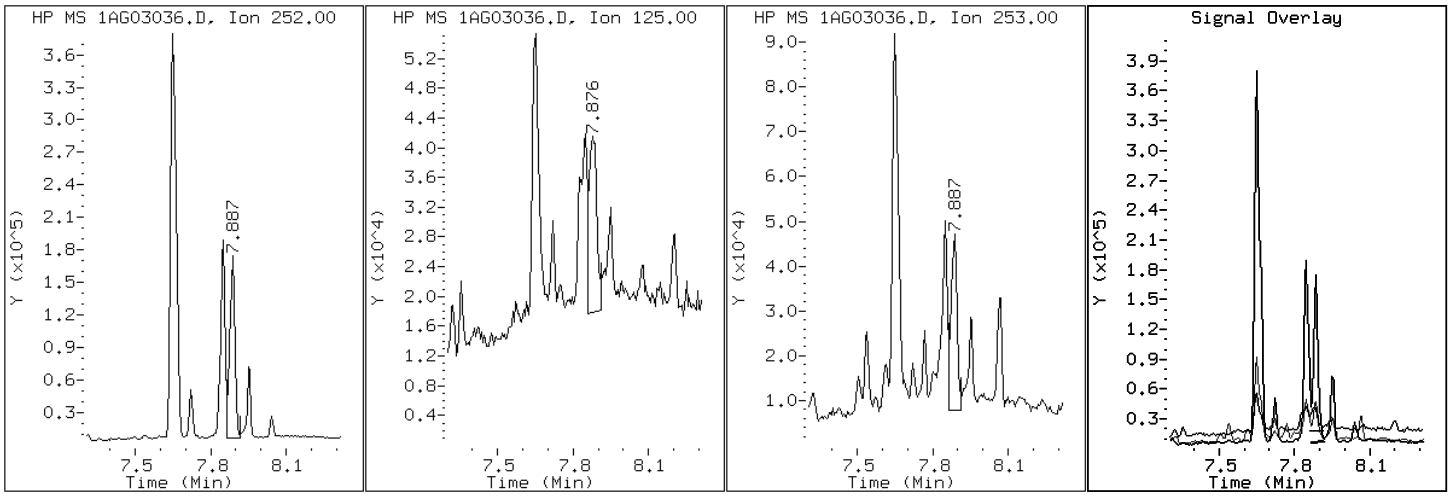
Data File: 1AG03036.D

Date: 03-JUL-2013 19:40

Client ID: CV1363J-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-16-A Operator: SCC

23 Benzo(a)pyrene



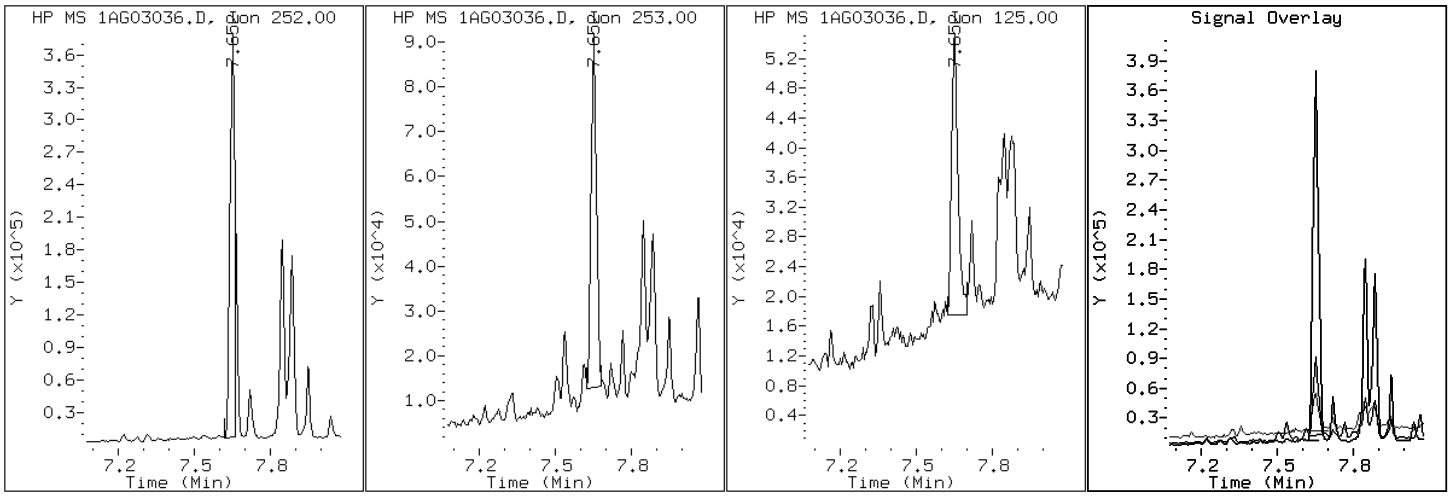
Data File: 1AG03036.D

Date: 03-JUL-2013 19:40

Client ID: CV1363J-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-16-A Operator: SCC

21 Benzo(b)fluoranthene



Data File: 1AG03036.D

Date: 03-JUL-2013 19:40

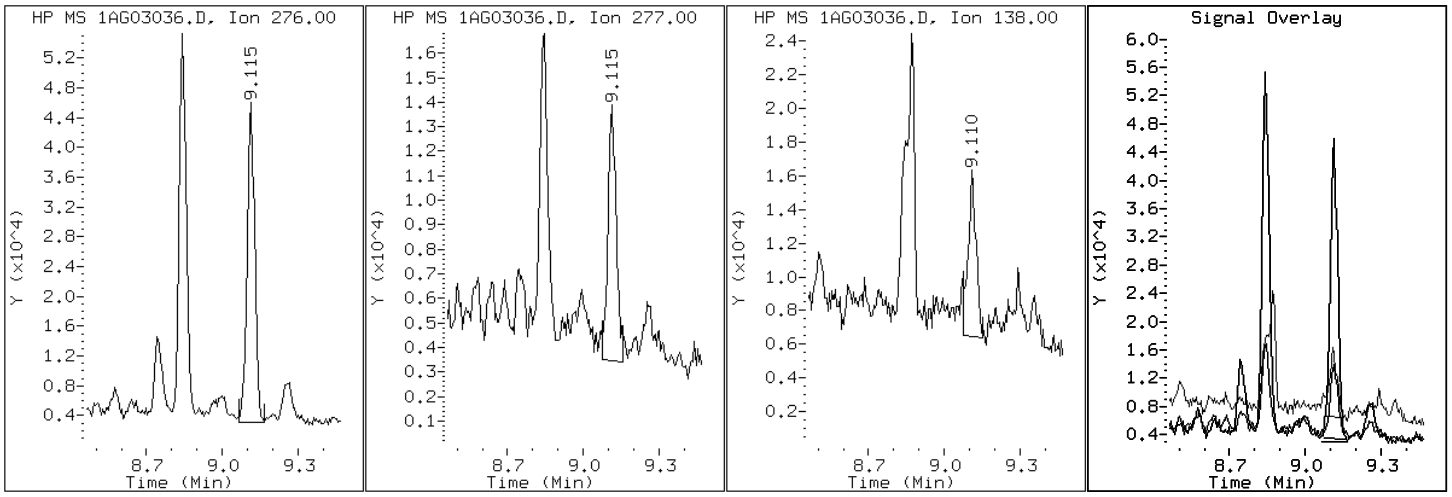
Client ID: CV1363J-CSD

Instrument: BSMA5973.i

Sample Info: 680-91719-A-16-A

Operator: SCC

27 Benzo(g,h,i)perylene



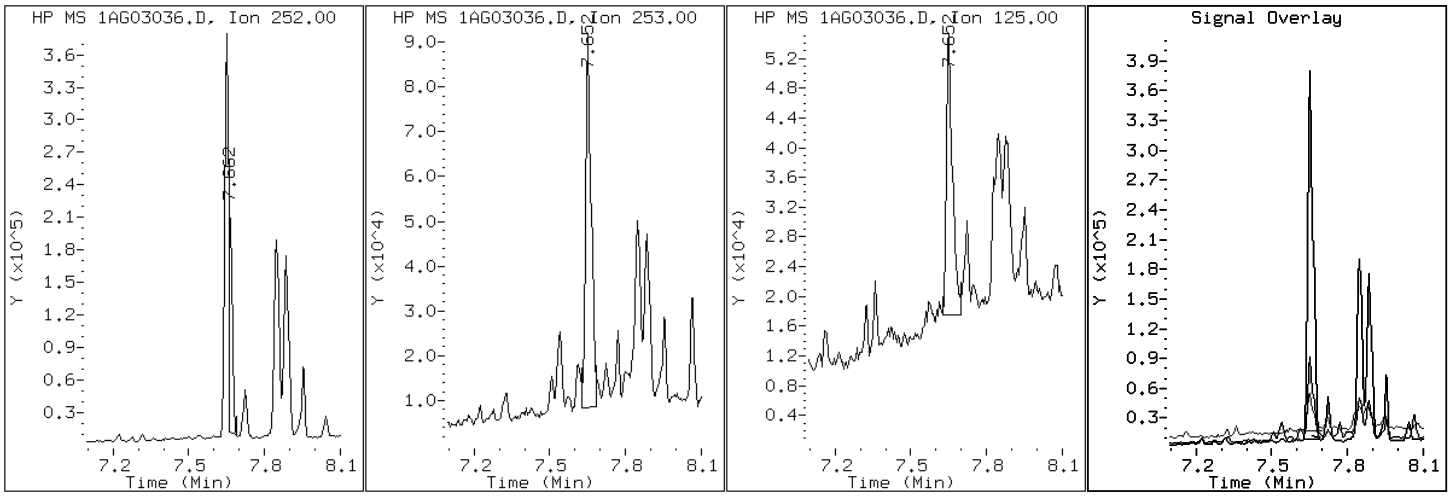
Data File: 1AG03036.D

Date: 03-JUL-2013 19:40

Client ID: CV1363J-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-16-A Operator: SCC

22 Benzo(k)fluoranthene



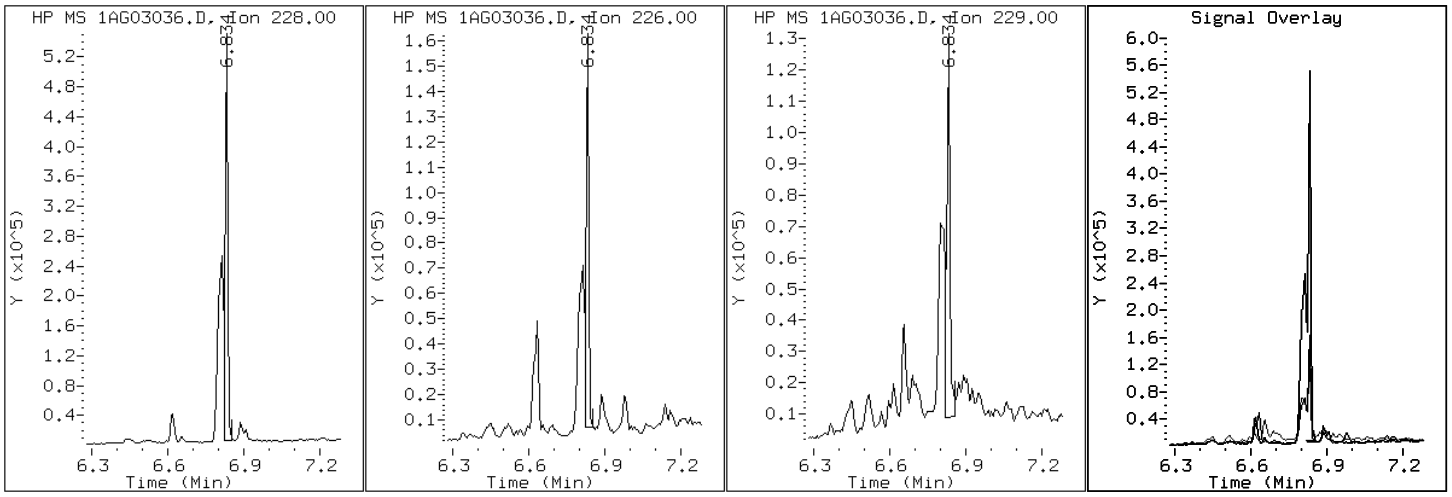
Data File: 1AG03036.D

Date: 03-JUL-2013 19:40

Client ID: CV1363J-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-16-A Operator: SCC

20 Chrysene



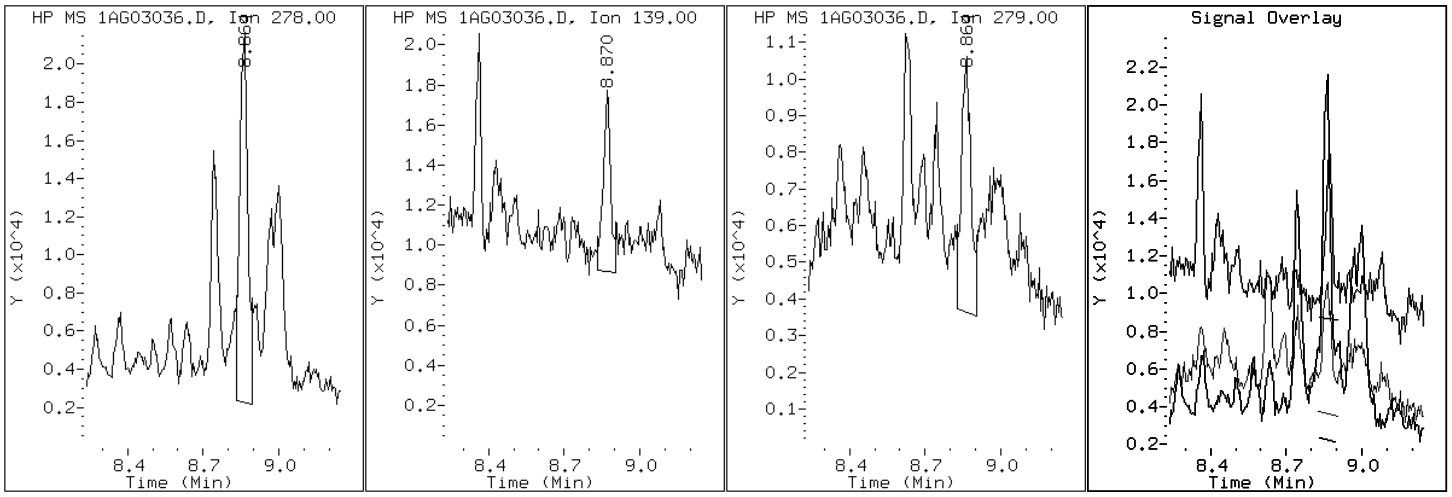
Data File: 1AG03036.D

Date: 03-JUL-2013 19:40

Client ID: CV1363J-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-16-A Operator: SCC

26 Dibenzo(a,h)anthracene



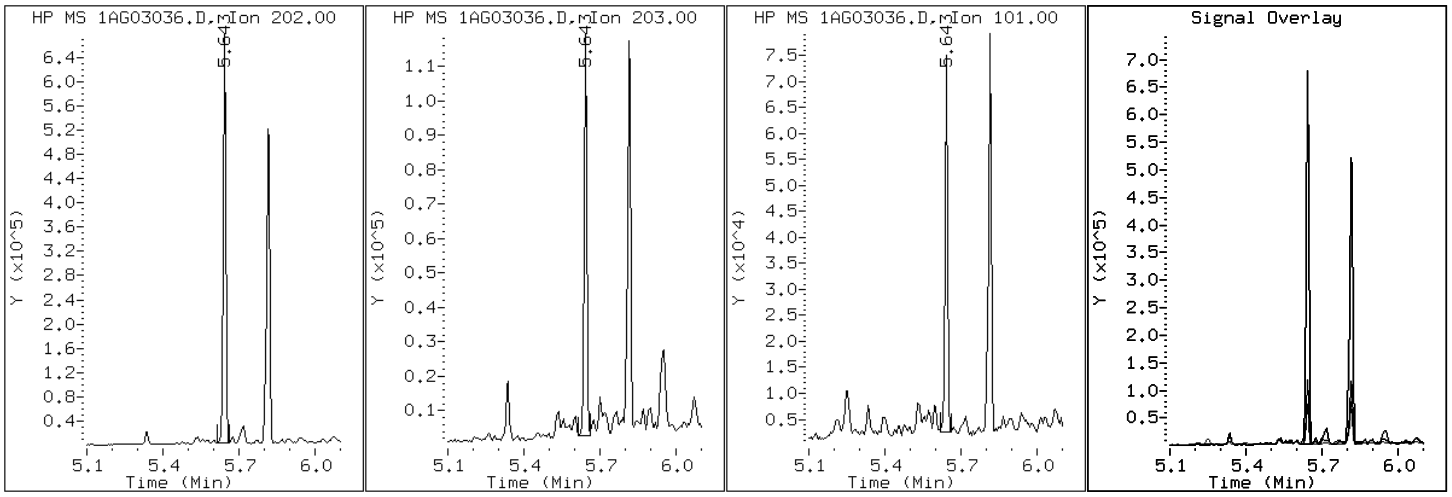
Data File: 1AG03036.D

Date: 03-JUL-2013 19:40

Client ID: CV1363J-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-16-A Operator: SCC

16 Fluoranthene



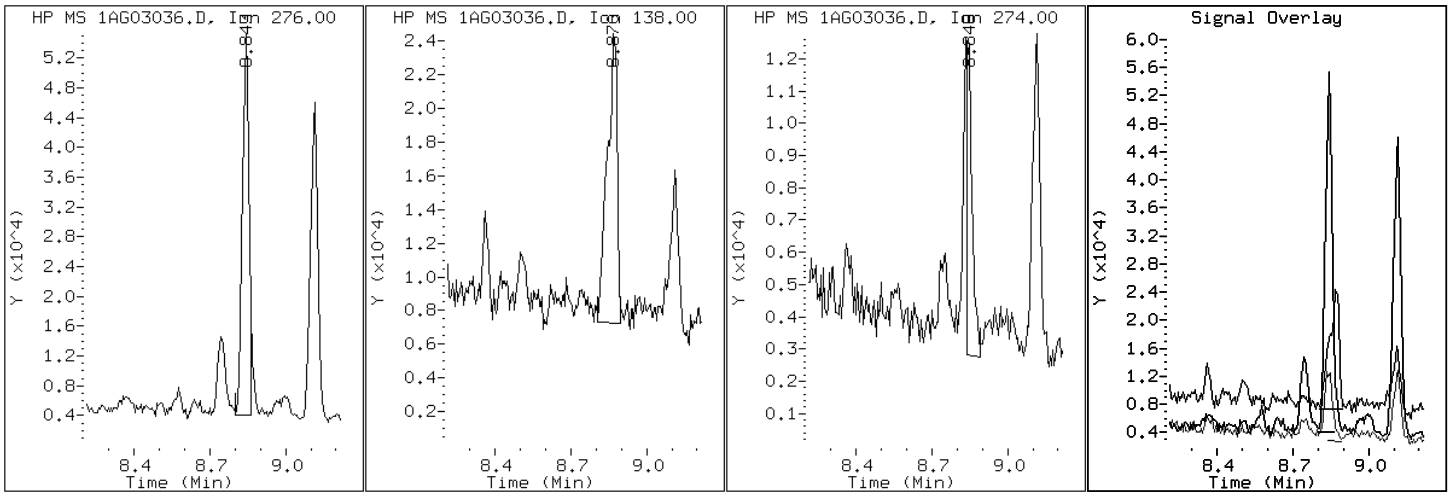
Data File: 1AG03036.D

Date: 03-JUL-2013 19:40

Client ID: CV1363J-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-16-A Operator: SCC

25 Indeno(1,2,3-cd)pyrene



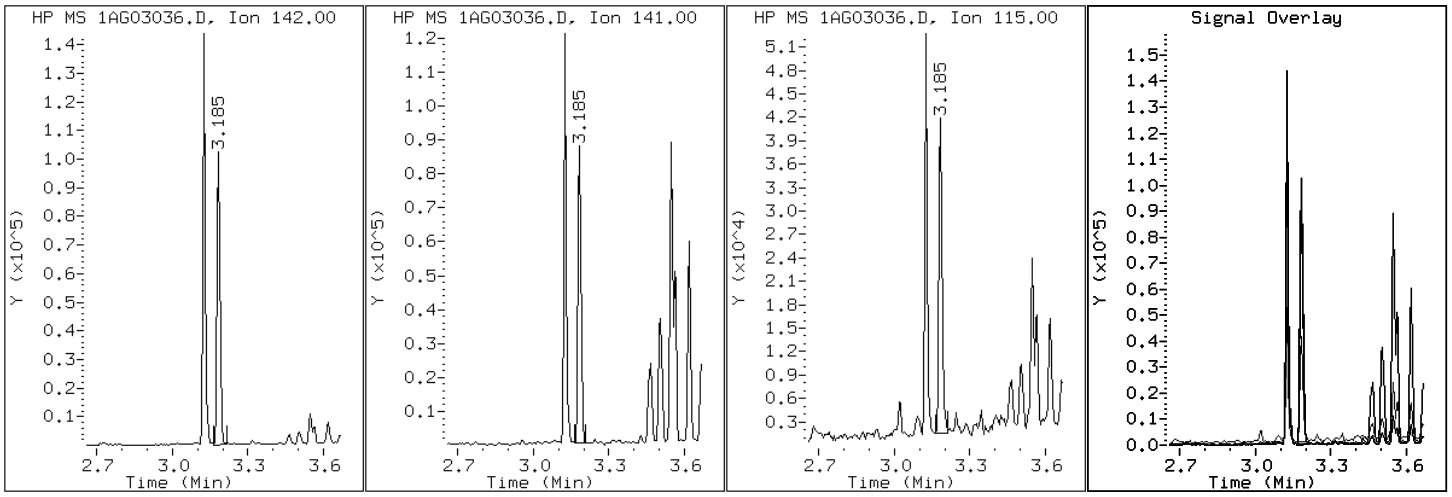
Data File: 1AG03036.D

Date: 03-JUL-2013 19:40

Client ID: CV1363J-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-16-A Operator: SCC

4 1-Methylnaphthalene



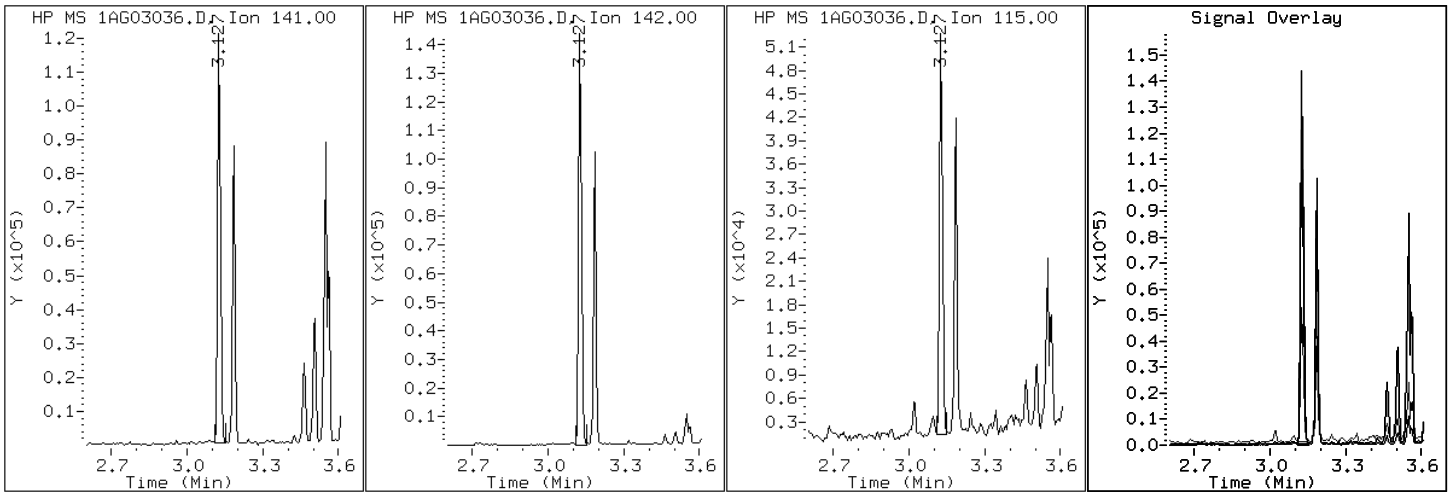
Data File: 1AG03036.D

Date: 03-JUL-2013 19:40

Client ID: CV1363J-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-16-A Operator: SCC

3 2-Methylnaphthalene



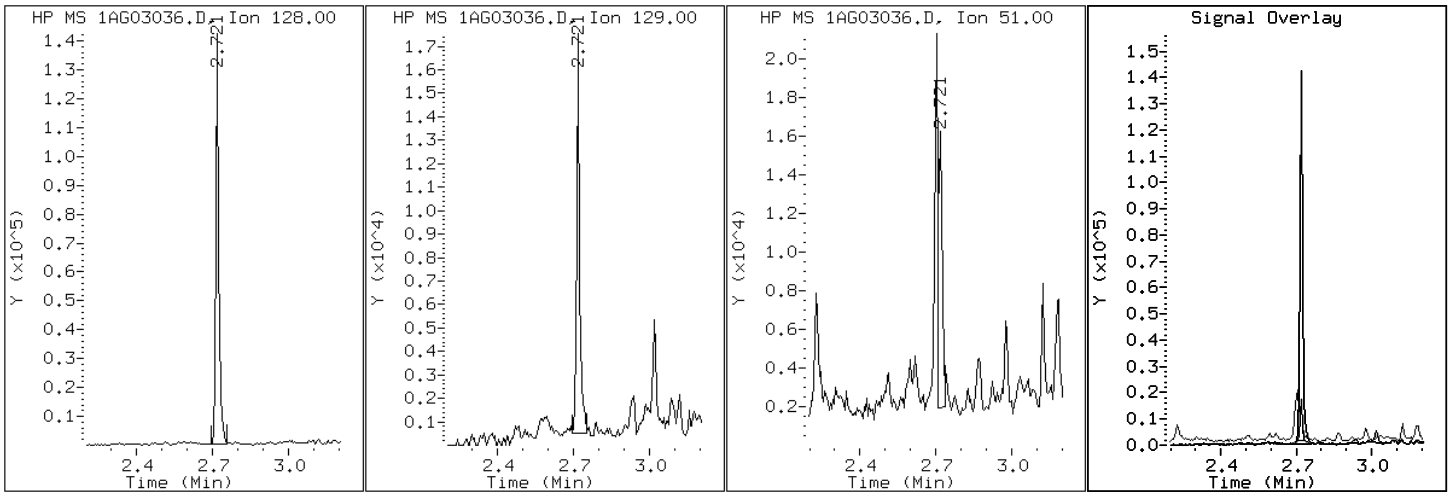
Data File: 1AG03036.D

Date: 03-JUL-2013 19:40

Client ID: CV1363J-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-16-A Operator: SCC

2 Naphthalene



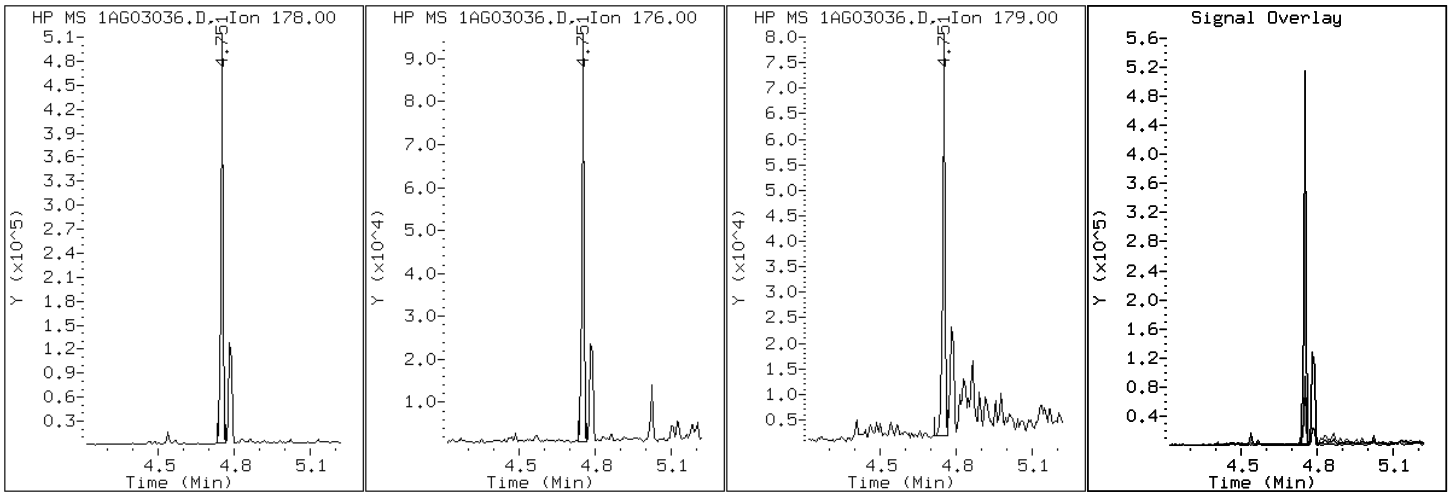
Data File: 1AG03036.D

Date: 03-JUL-2013 19:40

Client ID: CV1363J-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-16-A Operator: SCC

12 Phenanthrene



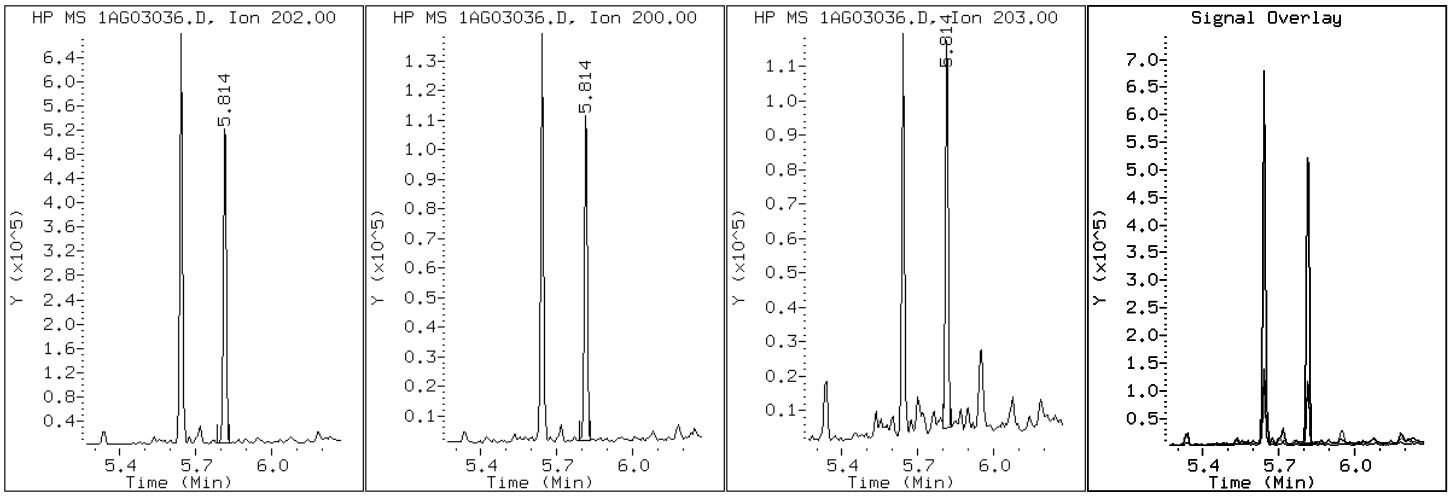
Data File: 1AG03036.D

Date: 03-JUL-2013 19:40

Client ID: CV1363J-CSD Instrument: BSMA5973.i

Sample Info: 680-91719-A-16-A Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG03036.D
Inj. Date and Time: 03-JUL-2013 19:40
Instrument ID: BSMA5973.i
Client ID: CV1363J-CSD
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/08/2013

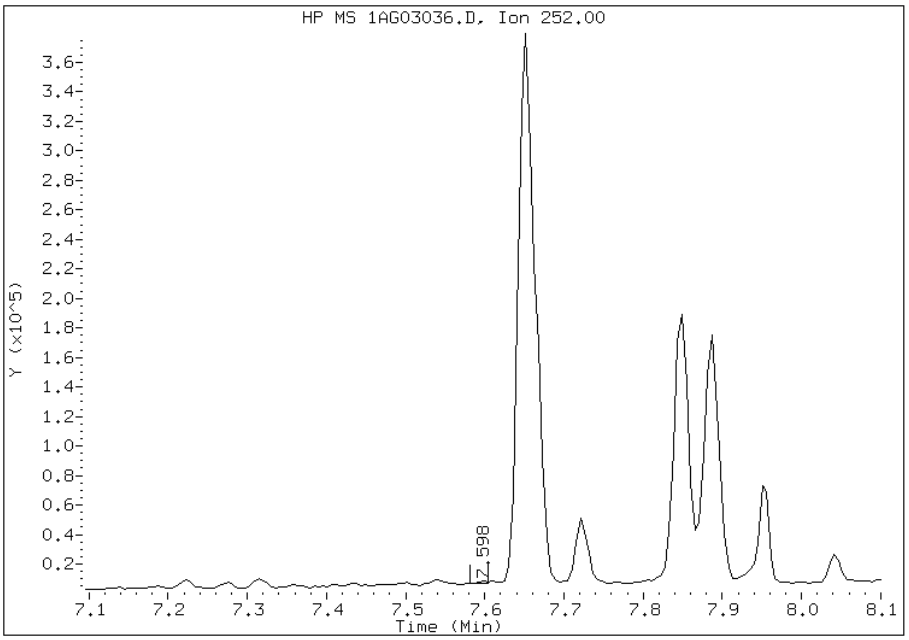
Processing Integration Results

RT: 7.60

Response: 1357

Amount: 0

Conc: 1



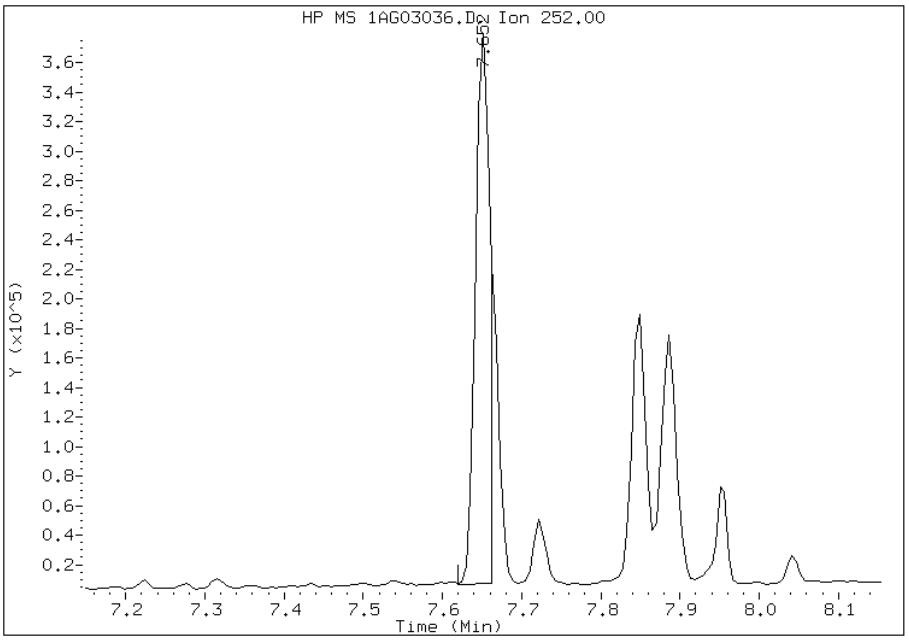
Manual Integration Results

RT: 7.65

Response: 467422

Amount: 5

Conc: 385



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:54
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG03036.D
Inj. Date and Time: 03-JUL-2013 19:40
Instrument ID: BSMA5973.i
Client ID: CV1363J-CSD
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/08/2013

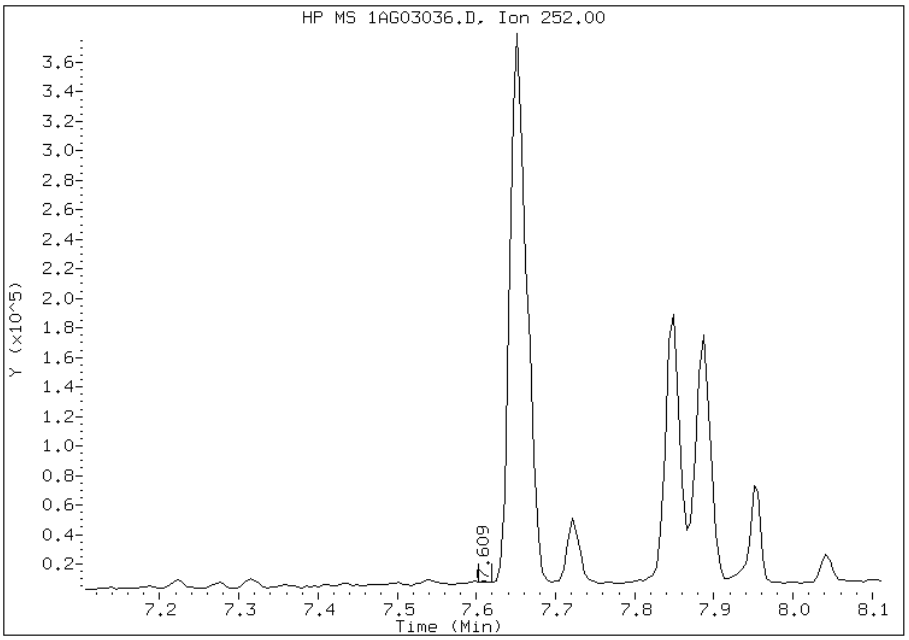
Processing Integration Results

RT: 7.61

Response: 382

Amount: 0

Conc: 14



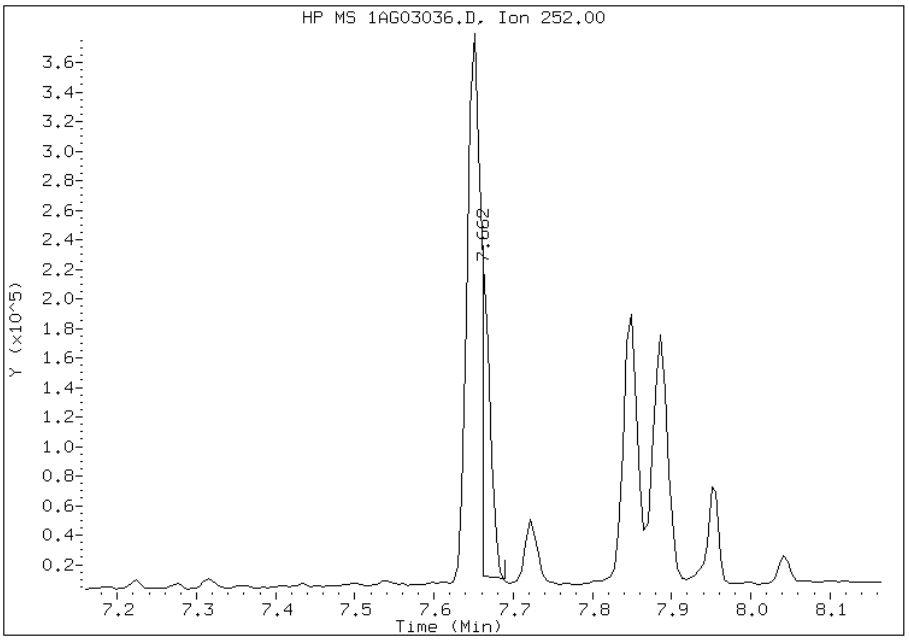
Manual Integration Results

RT: 7.66

Response: 153114

Amount: 1

Conc: 113



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:54
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG03036.D
Inj. Date and Time: 03-JUL-2013 19:40
Instrument ID: BSMA5973.i
Client ID: CV1363J-CSD
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

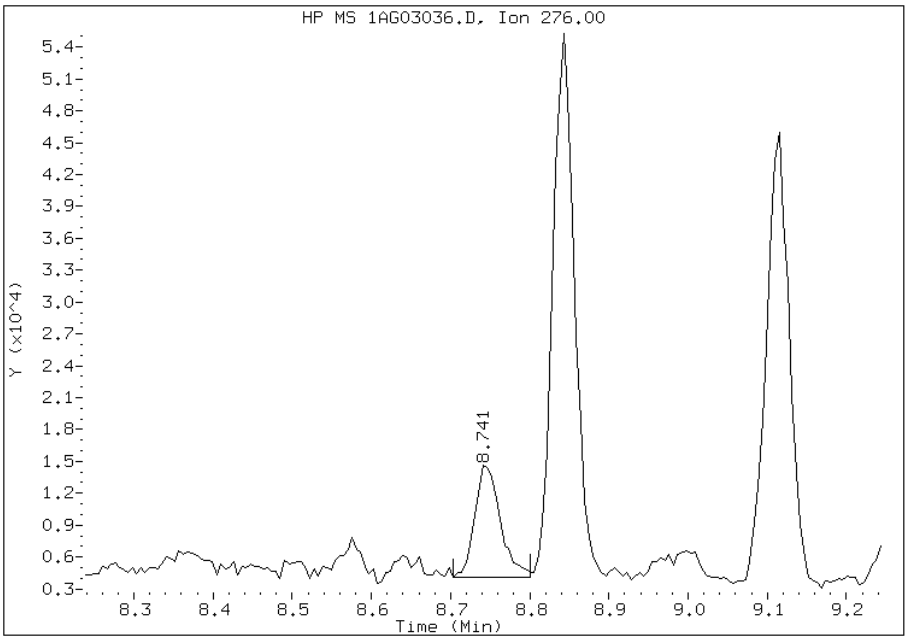
Processing Integration Results

RT: 8.74

Response: 23535

Amount: 0

Conc: 23



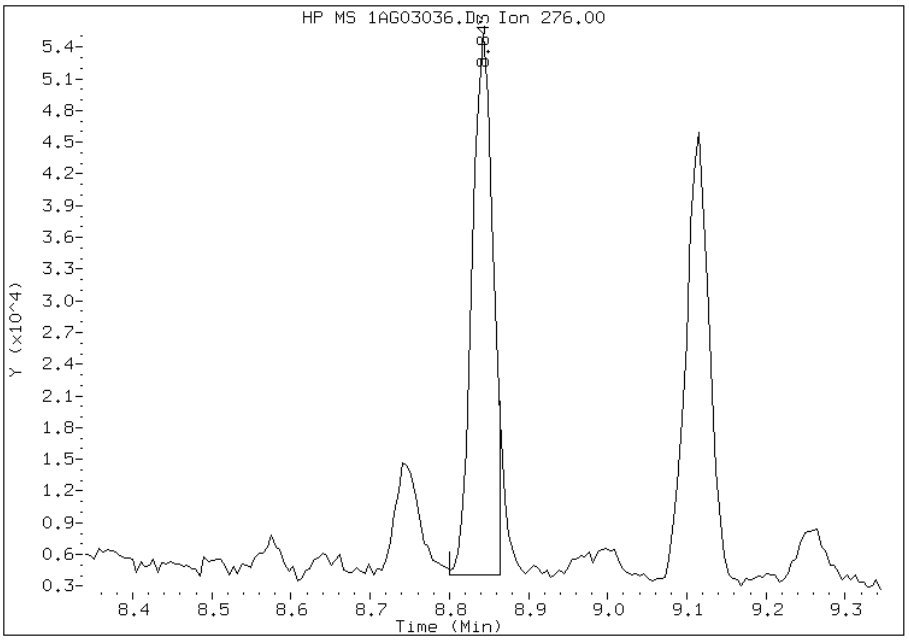
Manual Integration Results

RT: 8.84

Response: 94169

Amount: 1

Conc: 93



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:54
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363K-CS | Lab Sample ID: 680-91719-17

Matrix: Solid | Lab File ID: 1AG03025.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 08:19

Extract. Method: 3546 | Date Extracted: 07/03/2013 07:27

Sample wt/vol: 15.00(g) | Date Analyzed: 07/03/2013 16:55

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 10.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139084 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	46	F	45	5.6
120-12-7	Anthracene	85		9.4	4.7
56-55-3	Benzo[a]anthracene	230		8.9	4.3
50-32-8	Benzo[a]pyrene	230	F	12	5.8
205-99-2	Benzo[b]fluoranthene	380	F	14	6.8
191-24-2	Benzo[g,h,i]perylene	110	F	22	4.9
207-08-9	Benzo[k]fluoranthene	150		8.9	4.0
218-01-9	Chrysene	280	F	10	5.0
53-70-3	Dibenz(a,h)anthracene	40		22	4.6
206-44-0	Fluoranthene	470	F	22	4.5
86-73-7	Fluorene	22	U	22	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	120	F	22	7.9
90-12-0	1-Methylnaphthalene	68		45	4.9
91-57-6	2-Methylnaphthalene	74		45	7.9
91-20-3	Naphthalene	61		45	4.9
85-01-8	Phenanthrene	290	F	8.9	4.3
129-00-0	Pyrene	290	F	22	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	45		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03025.D
Lab Smp Id: 680-91719-A-17-A Client Smp ID: CV1363K-CS
Inj Date : 03-JUL-2013 16:55
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-A-17-A
Misc Info : 680-91719-A-17-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	10.337	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.699	2.689	(1.000)	3234397	40.0000	
* 7 Acenaphthene-d10	164	3.735	3.725	(1.000)	1906243	40.0000	
* 11 Phenanthrene-d10	188	4.723	4.703	(1.000)	3056809	40.0000	
$ 15 o-Terphenyl	230	5.012	4.996	(1.061)	287291	4.52812	336.6769
* 19 Chrysene-d12	240	6.796	6.759	(1.000)	4485437	40.0000	
* 24 Perylene-d12	264	7.907	7.860	(1.000)	4162649	40.0000	(H)
2 Naphthalene	128	2.709	2.705	(1.004)	69041	0.81754	60.7864
3 2-Methylnaphthalene	141	3.115	3.105	(1.154)	56901	0.99854	74.2441
4 1-Methylnaphthalene	142	3.174	3.164	(1.176)	62932	0.91540	68.0620
6 Acenaphthylene	152	3.650	3.634	(0.977)	61250	0.61200	45.5036
12 Phenanthrene	178	4.734	4.719	(1.002)	429590	3.90870	290.6219
13 Anthracene	178	4.766	4.756	(1.009)	125552	1.14501	85.1344
16 Fluoranthene	202	5.621	5.600	(1.190)	807887	6.30987	469.1552
17 Pyrene	202	5.792	5.771	(0.852)	707400	3.91181	290.8529

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
18 Benzo(a)anthracene	228	6.785	6.743	(0.998)	490786	3.15633	234.6808
20 Chrysene	228	6.807	6.781	(1.002)	549426	3.73965	278.0525
21 Benzo(b)fluoranthene	252	7.613	7.577	(0.963)	669290	5.08004	377.7140(MH)
22 Benzo(k)fluoranthene	252	7.624	7.598	(0.964)	299559	1.97241	146.6533(QMH)
23 Benzo(a)pyrene	252	7.848	7.812	(0.993)	380790	3.09259	229.9418(H)
25 Indeno(1,2,3-cd)pyrene	276	8.778	8.715	(1.110)	172241	1.56703	116.5128(MH)
26 Dibenzo(a,h)anthracene	278	8.799	8.741	(1.113)	58074	0.53320	39.6446(H)
27 Benzo(g,h,i)perylene	276	9.040	8.966	(1.143)	175081	1.49586	111.2211(H)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG03025.D

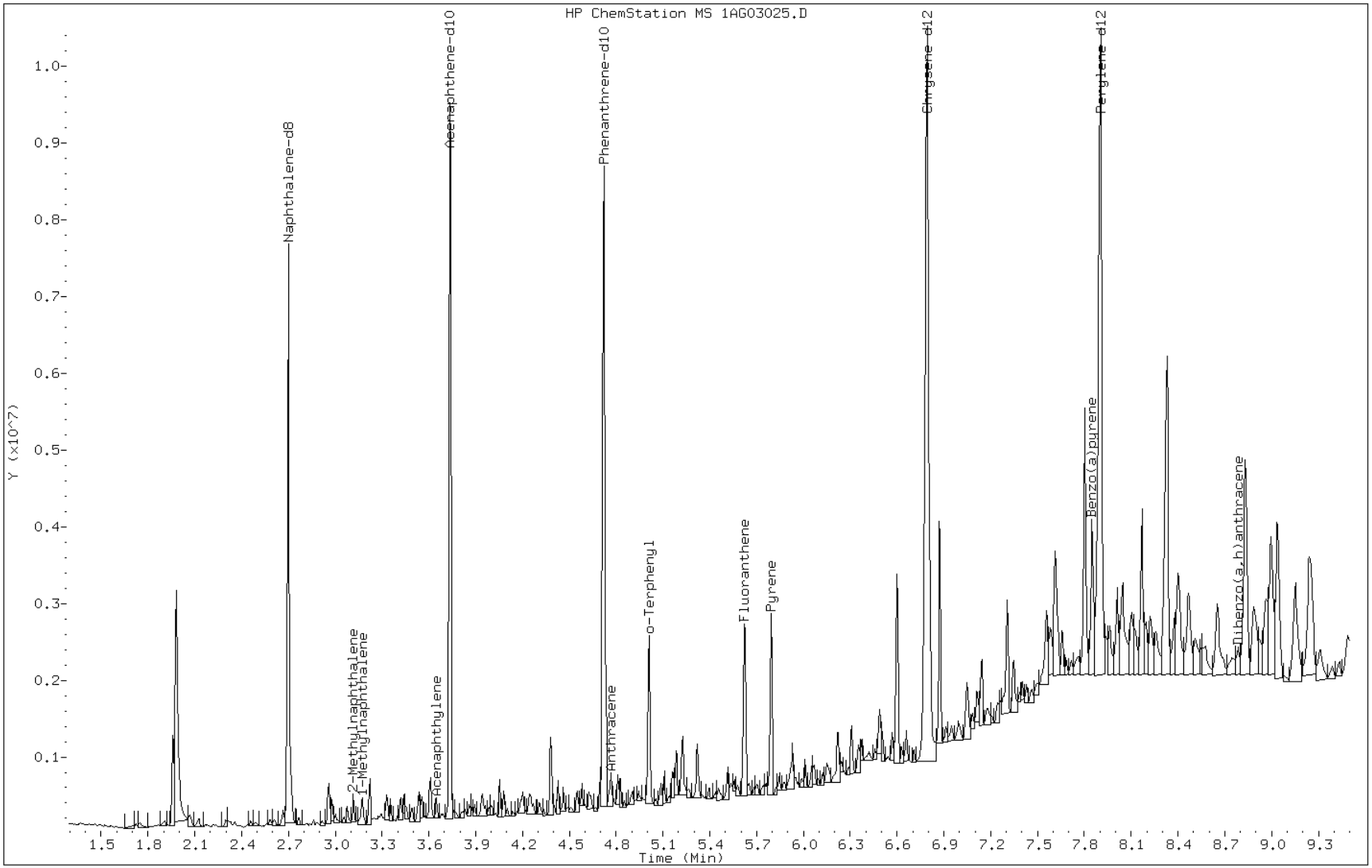
Date: 03-JUL-2013 16:55

Client ID: CV1363K-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-17-A

Operator: SCC



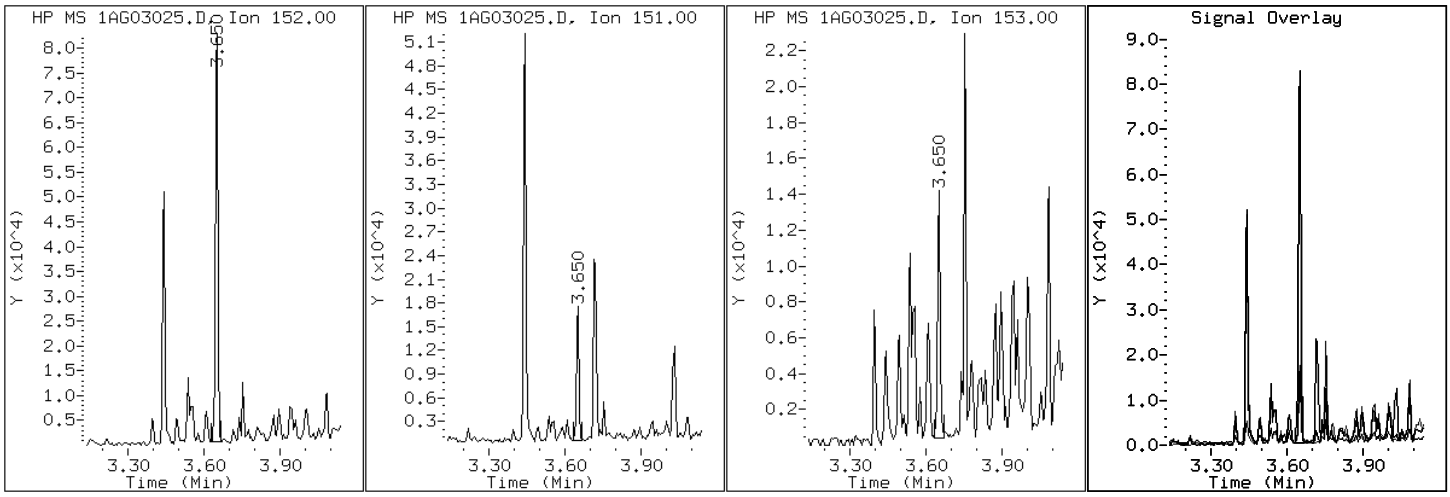
Data File: 1AG03025.D

Date: 03-JUL-2013 16:55

Client ID: CV1363K-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-17-A Operator: SCC

6 Acenaphthylene



Data File: 1AG03025.D

Date: 03-JUL-2013 16:55

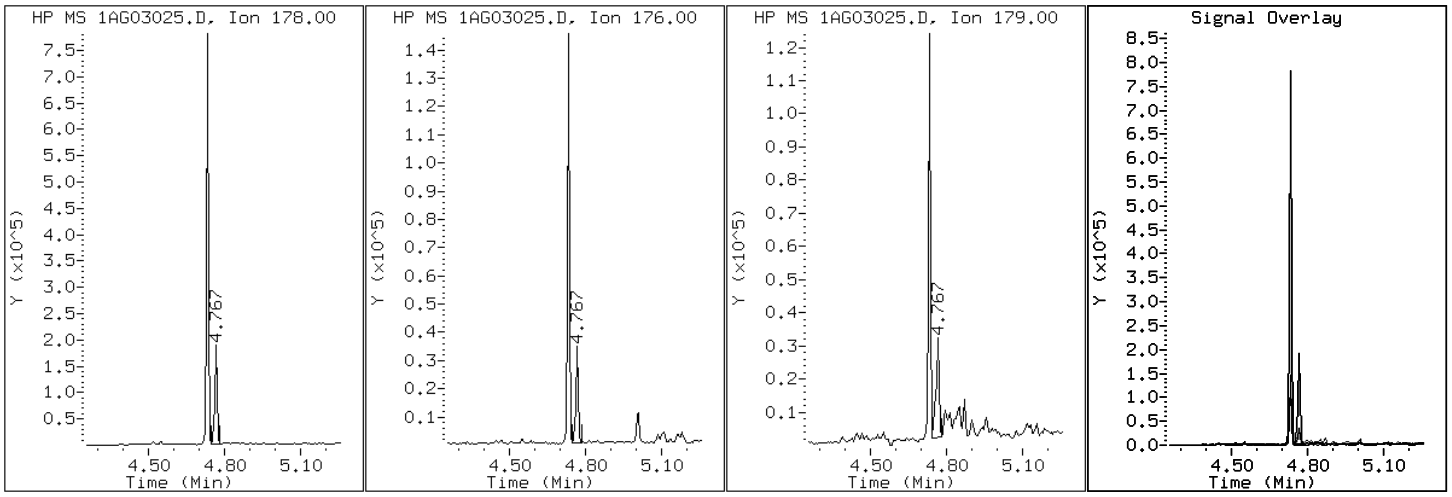
Client ID: CV1363K-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-17-A

Operator: SCC

13 Anthracene



Data File: 1AG03025.D

Date: 03-JUL-2013 16:55

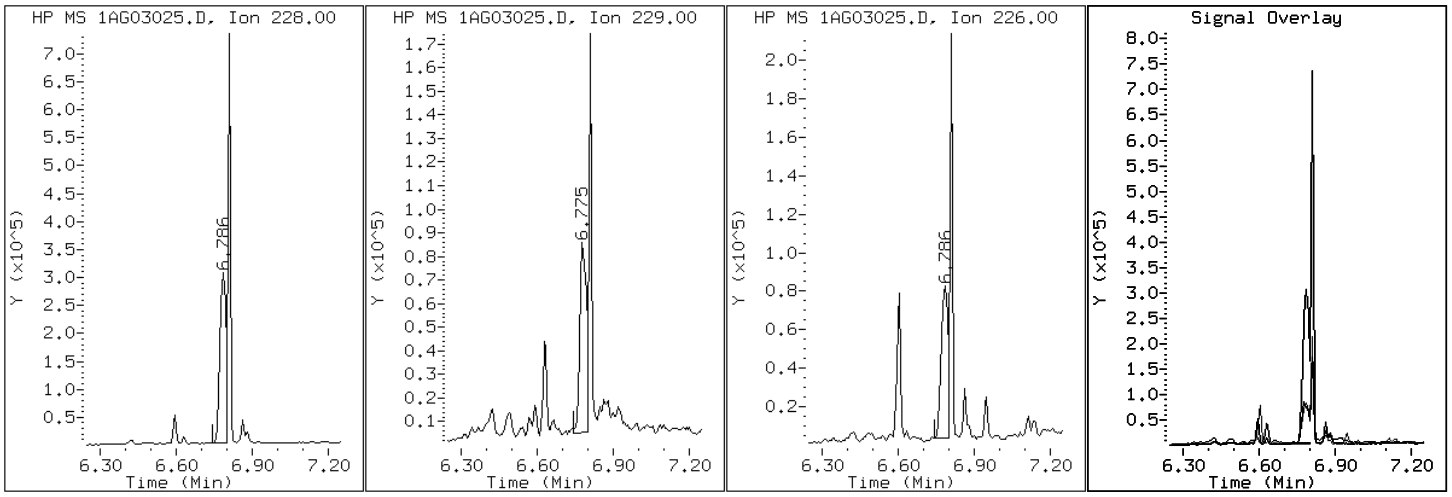
Client ID: CV1363K-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-17-A

Operator: SCC

18 Benzo(a)anthracene



Data File: 1AG03025.D

Date: 03-JUL-2013 16:55

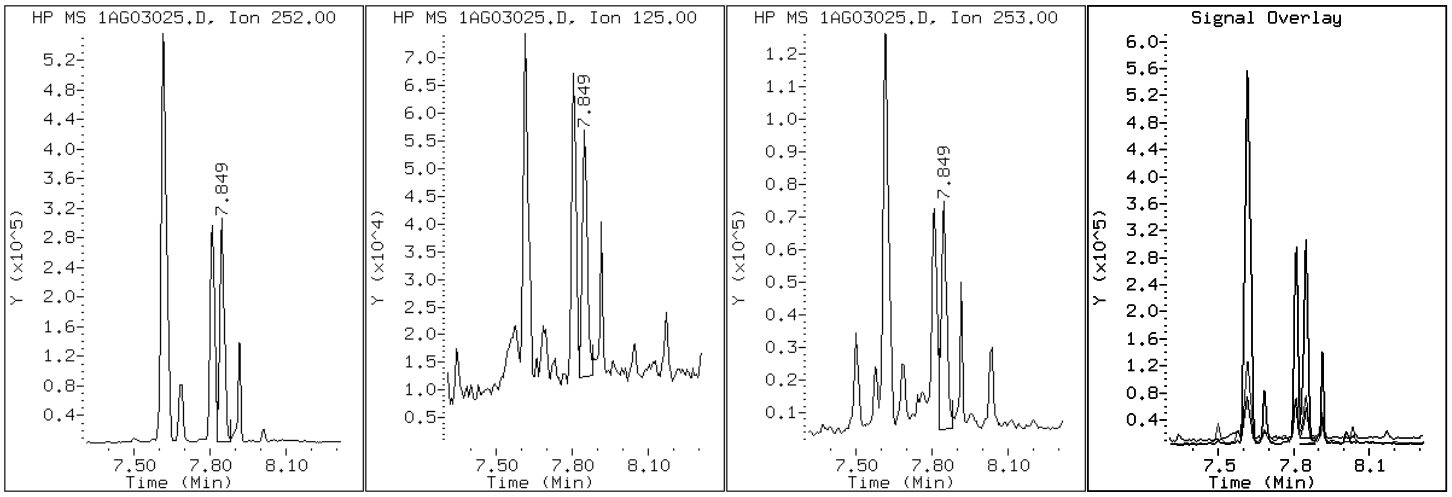
Client ID: CV1363K-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-17-A

Operator: SCC

23 Benzo(a)pyrene



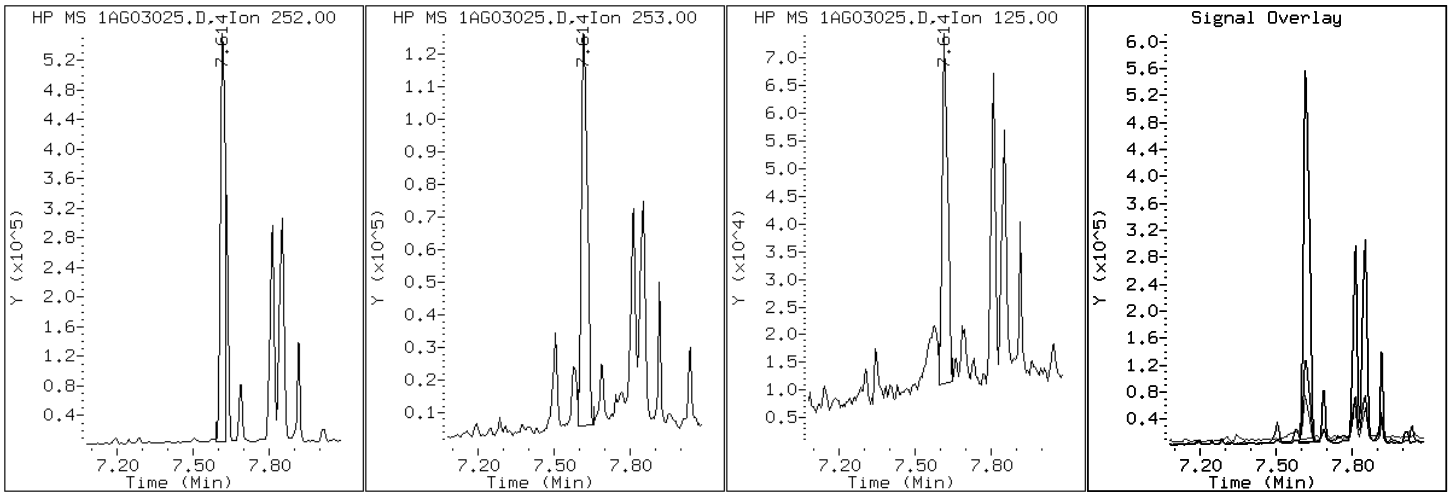
Data File: 1AG03025.D

Date: 03-JUL-2013 16:55

Client ID: CV1363K-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-17-A Operator: SCC

21 Benzo(b)fluoranthene



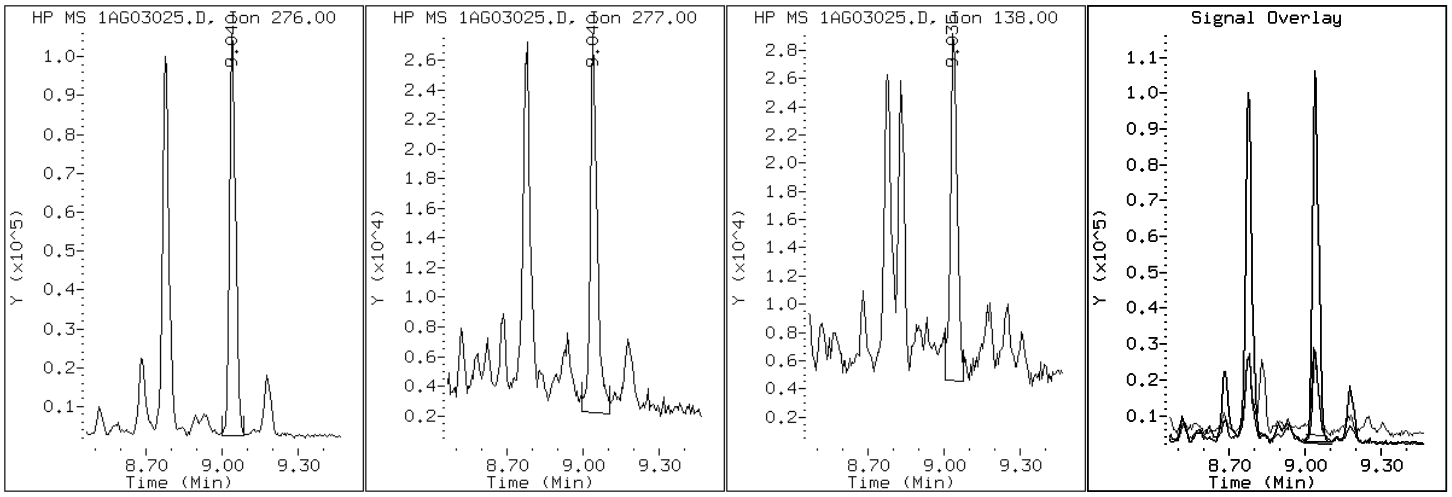
Data File: 1AG03025.D

Date: 03-JUL-2013 16:55

Client ID: CV1363K-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-17-A Operator: SCC

27 Benzo(g,h,i)perylene



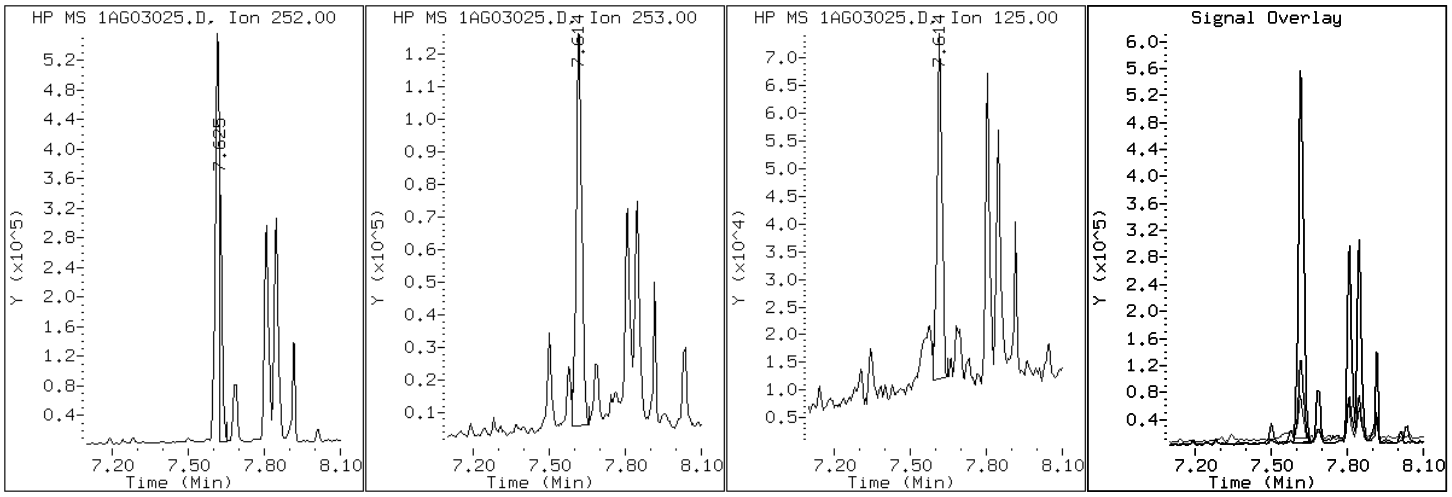
Data File: 1AG03025.D

Date: 03-JUL-2013 16:55

Client ID: CV1363K-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-17-A Operator: SCC

22 Benzo(k)fluoranthene



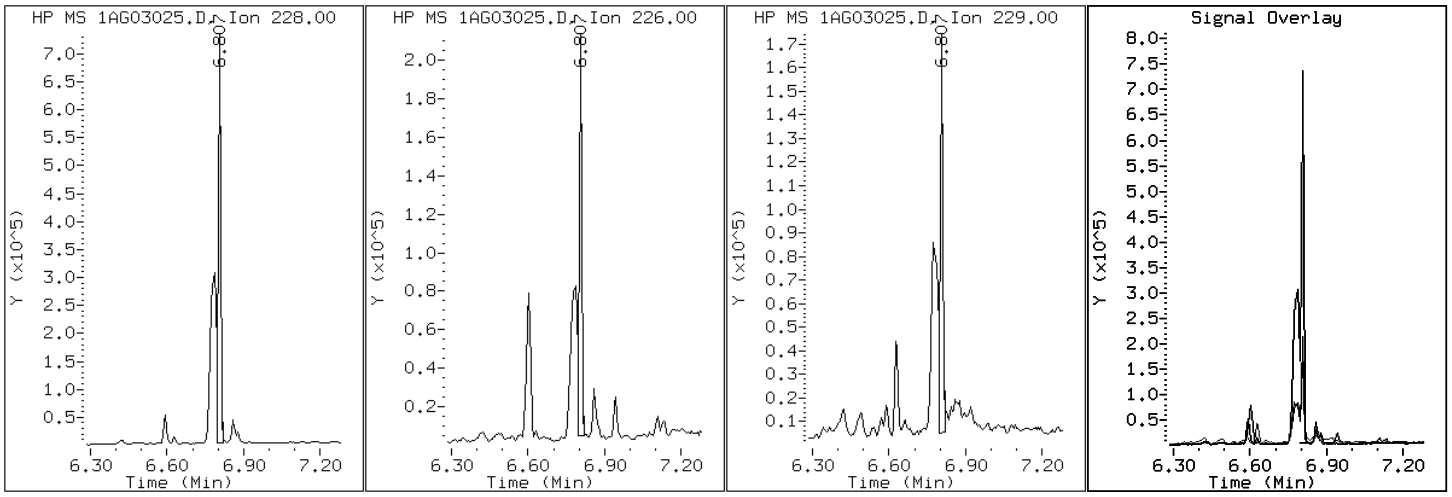
Data File: 1AG03025.D

Date: 03-JUL-2013 16:55

Client ID: CV1363K-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-17-A Operator: SCC

20 Chrysene



Data File: 1AG03025.D

Date: 03-JUL-2013 16:55

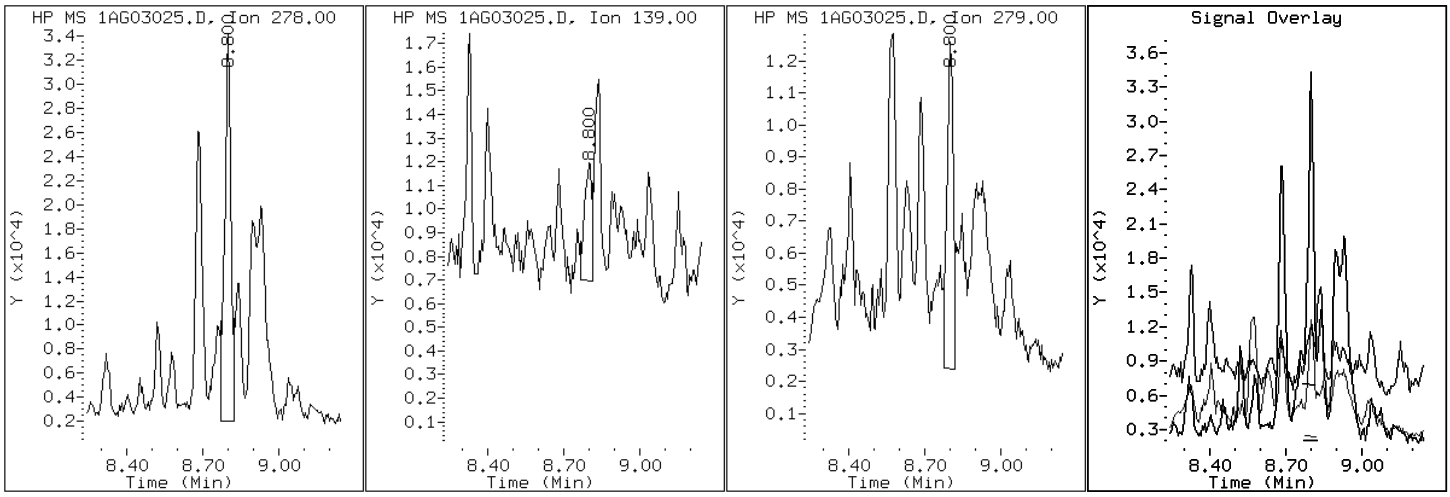
Client ID: CV1363K-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-17-A

Operator: SCC

26 Dibenzo(a,h)anthracene



Data File: 1AG03025.D

Date: 03-JUL-2013 16:55

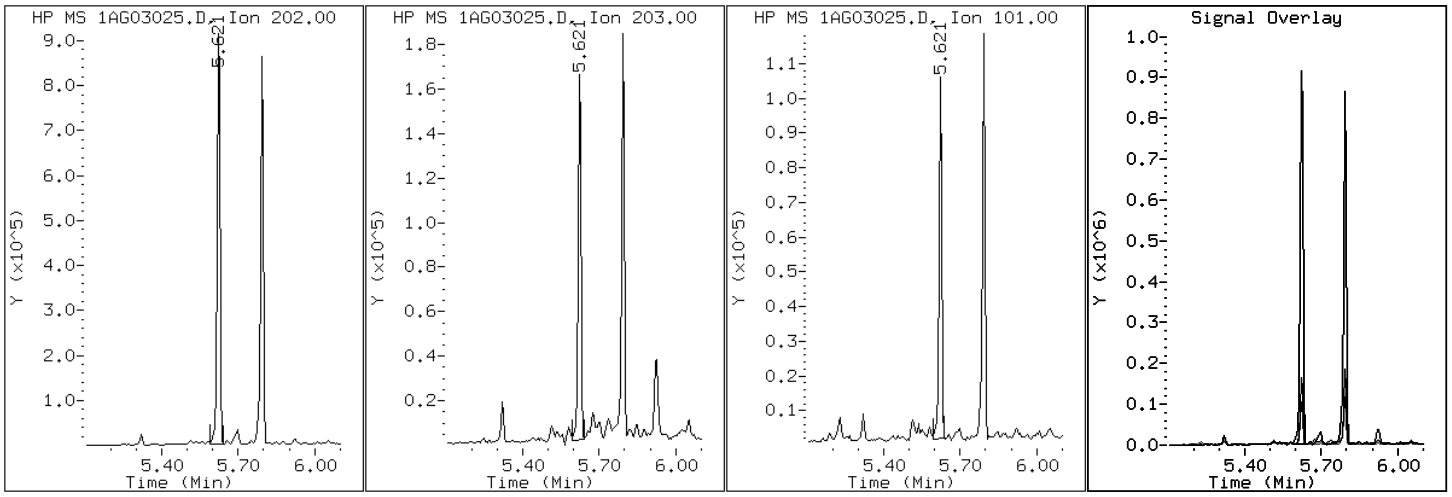
Client ID: CV1363K-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-17-A

Operator: SCC

16 Fluoranthene



Data File: 1AG03025.D

Date: 03-JUL-2013 16:55

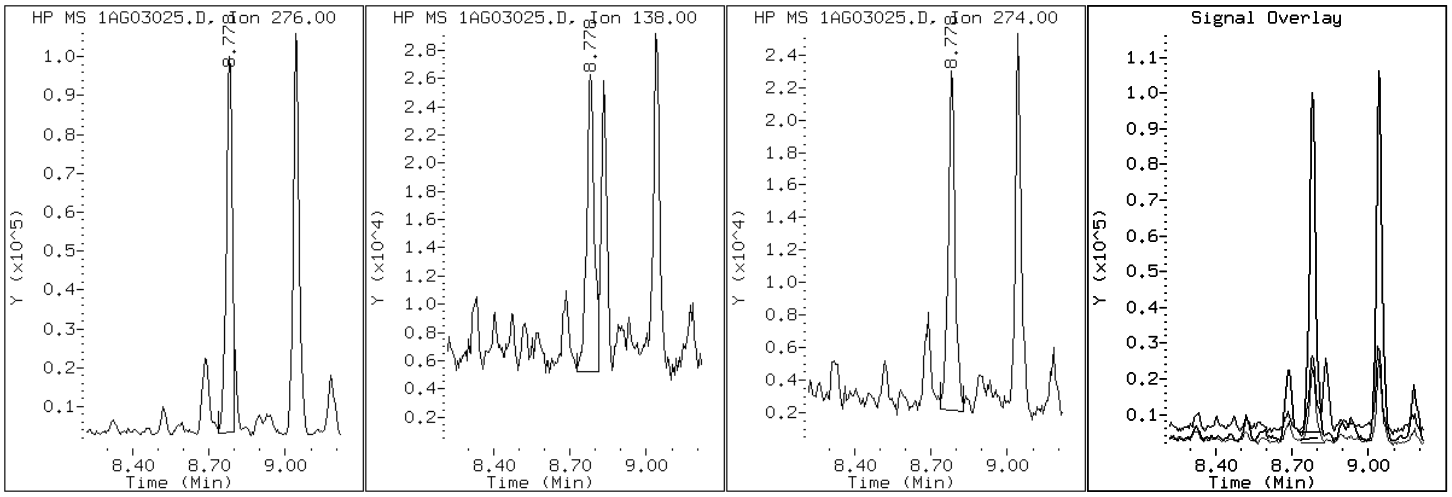
Client ID: CV1363K-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-17-A

Operator: SCC

25 Indeno(1,2,3-cd)pyrene



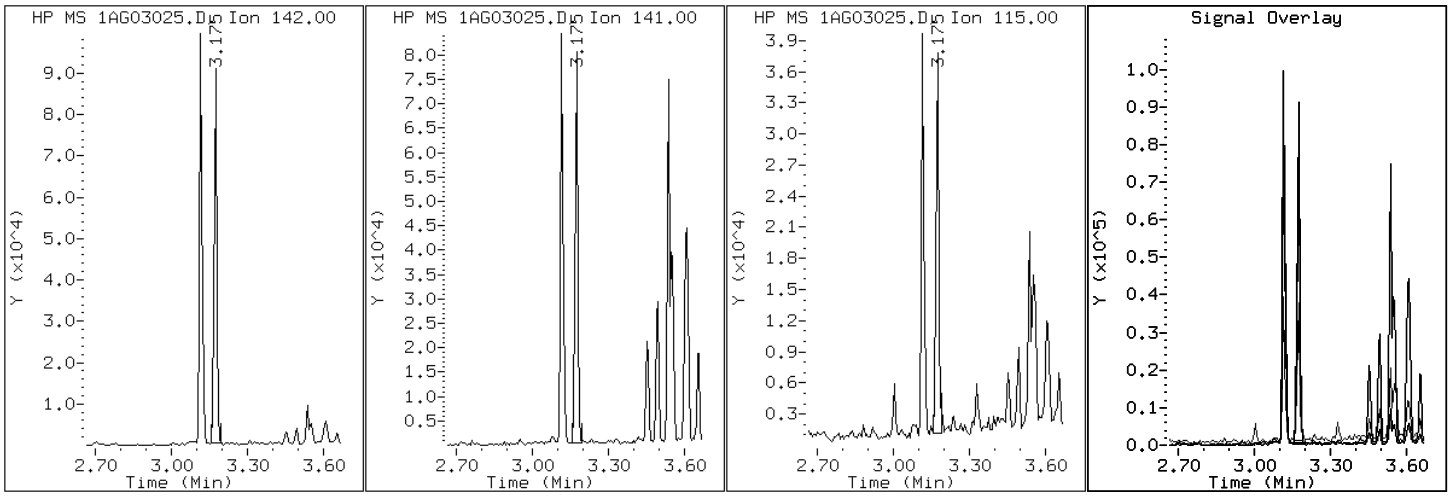
Data File: 1AG03025.D

Date: 03-JUL-2013 16:55

Client ID: CV1363K-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-17-A Operator: SCC

4 1-Methylnaphthalene



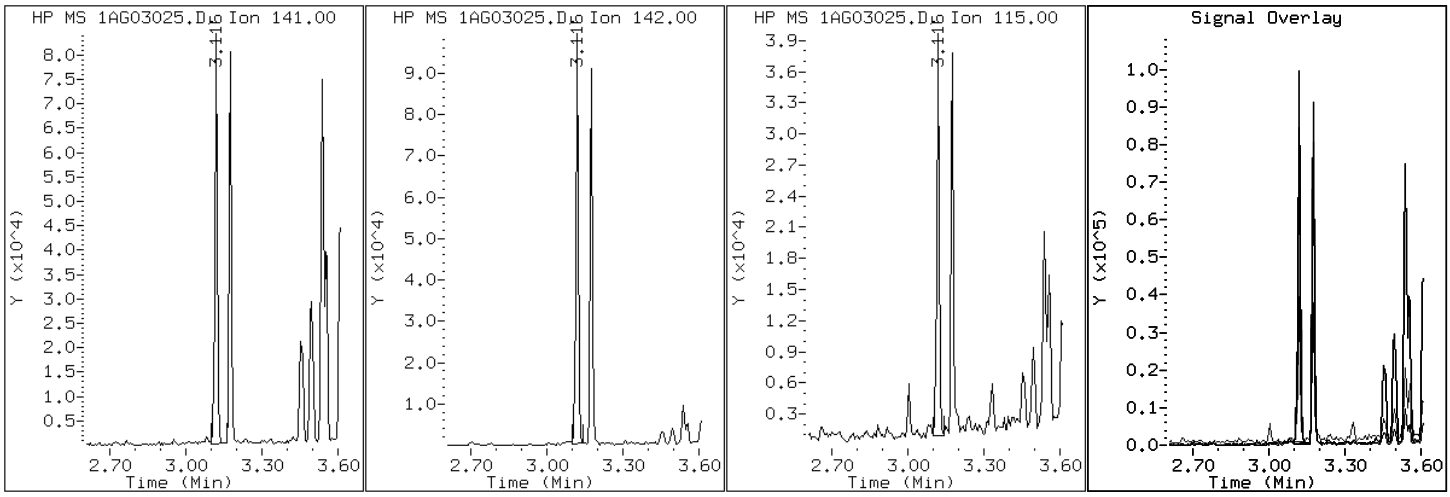
Data File: 1AG03025.D

Date: 03-JUL-2013 16:55

Client ID: CV1363K-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-17-A Operator: SCC

3 2-Methylnaphthalene



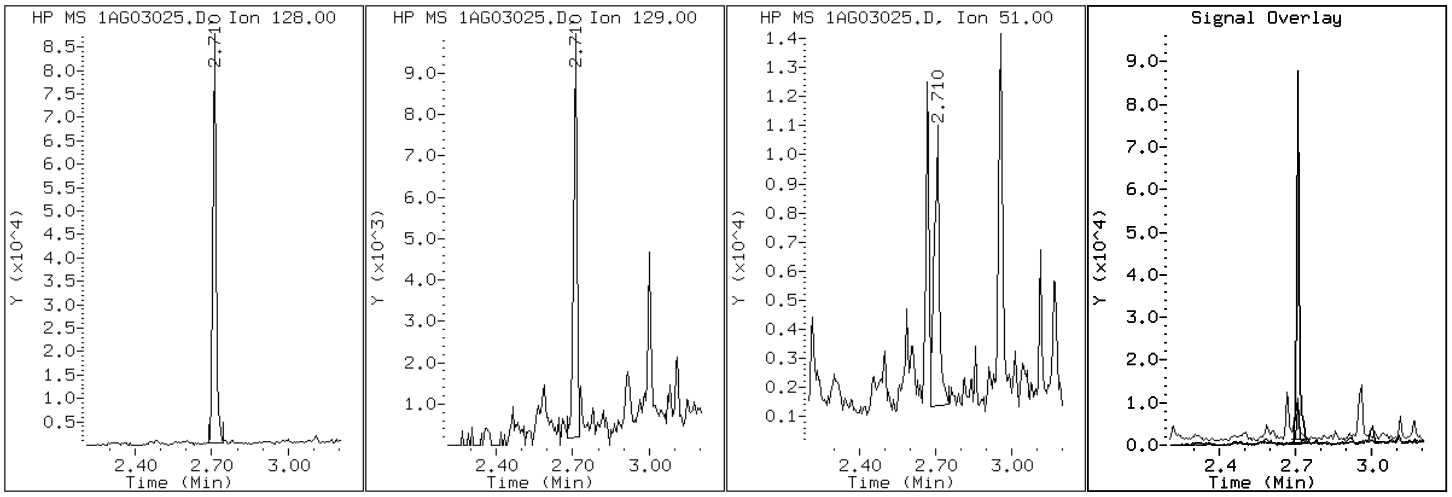
Data File: 1AG03025.D

Date: 03-JUL-2013 16:55

Client ID: CV1363K-CS Instrument: BSMA5973.i

Sample Info: 680-91719-A-17-A Operator: SCC

2 Naphthalene



Data File: 1AG03025.D

Date: 03-JUL-2013 16:55

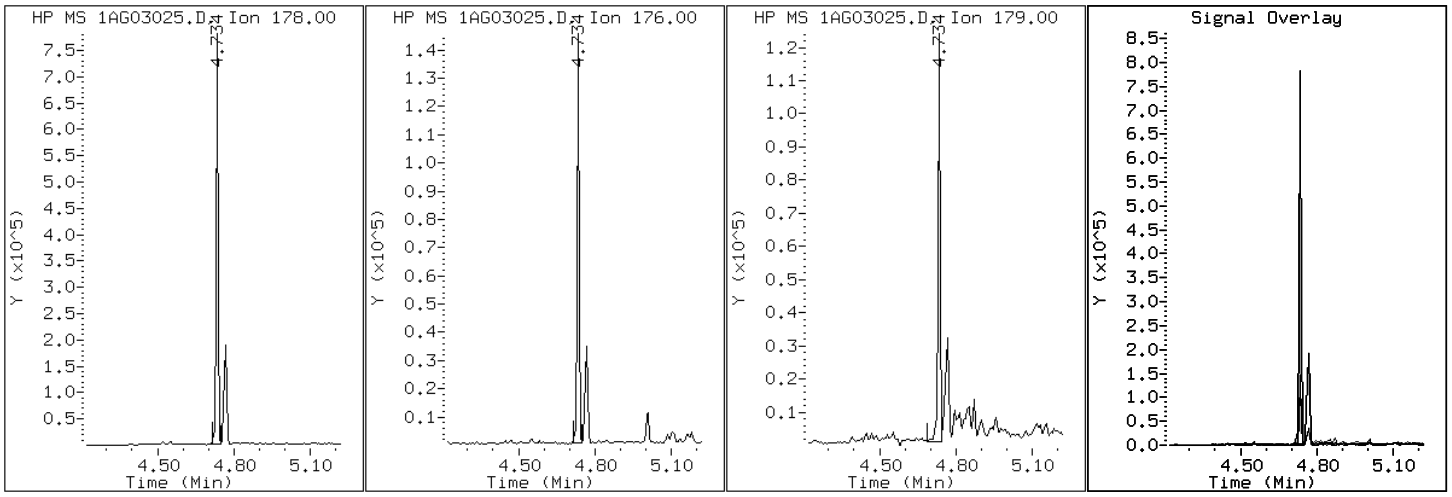
Client ID: CV1363K-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-17-A

Operator: SCC

12 Phenanthrene



Data File: 1AG03025.D

Date: 03-JUL-2013 16:55

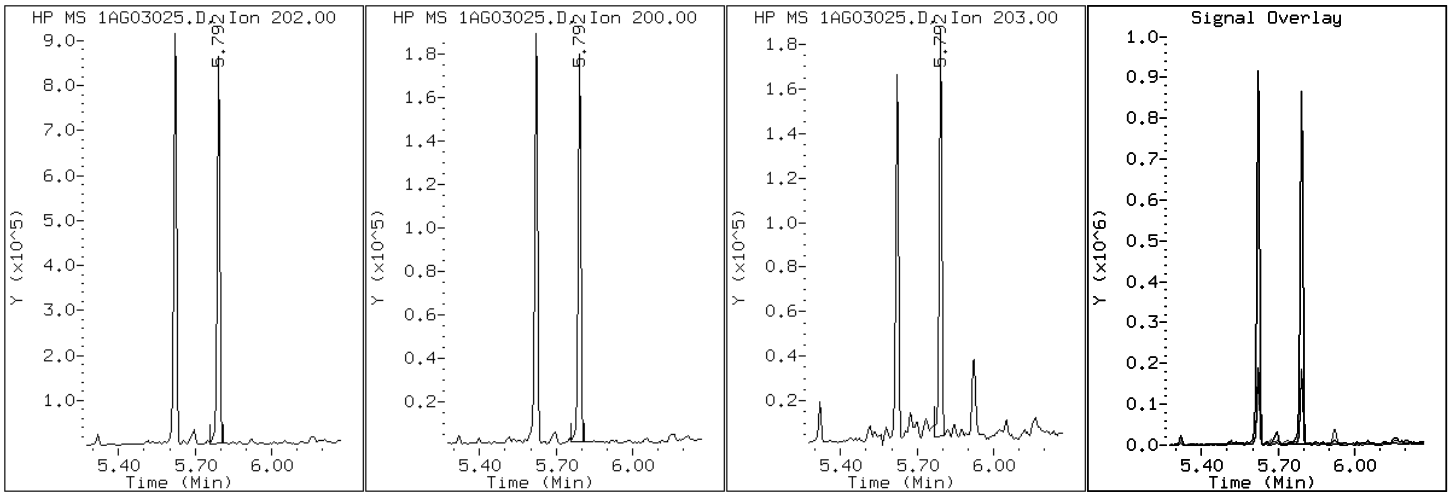
Client ID: CV1363K-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-A-17-A

Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG03025.D
Inj. Date and Time: 03-JUL-2013 16:55
Instrument ID: BSMA5973.i
Client ID: CV1363K-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/05/2013

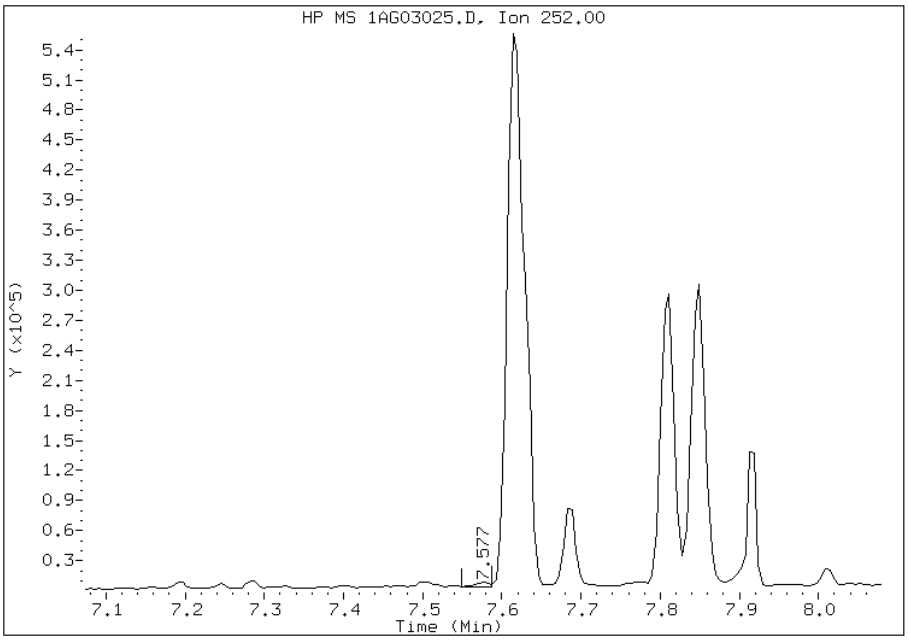
Processing Integration Results

RT: 7.58

Response: 5939

Amount: 0

Conc: 3



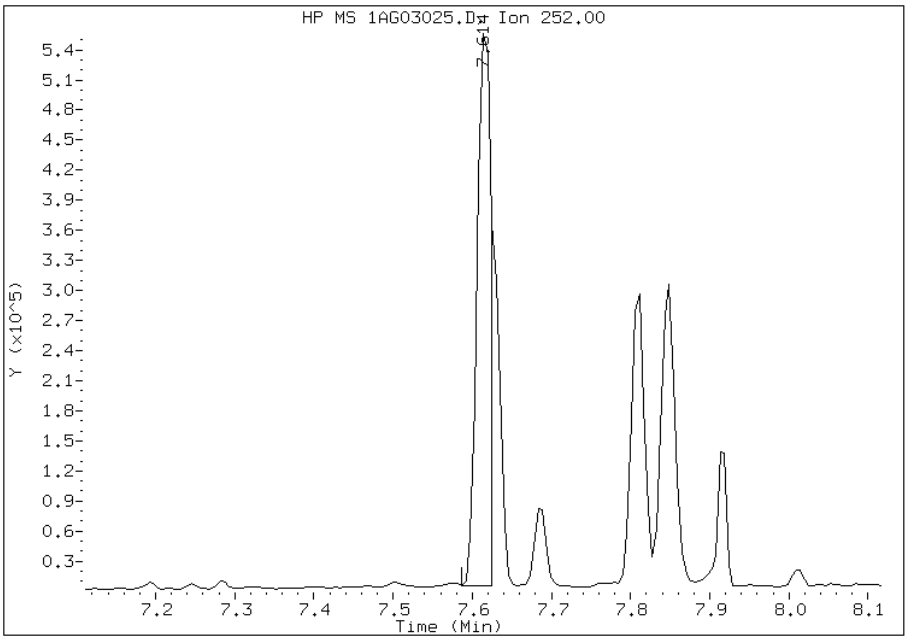
Manual Integration Results

RT: 7.61

Response: 669290

Amount: 5

Conc: 378



Manually Integrated By: cantins
Modification Date: 05-Jul-2013 11:01
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG03025.D
Inj. Date and Time: 03-JUL-2013 16:55
Instrument ID: BSMA5973.i
Client ID: CV1363K-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/05/2013

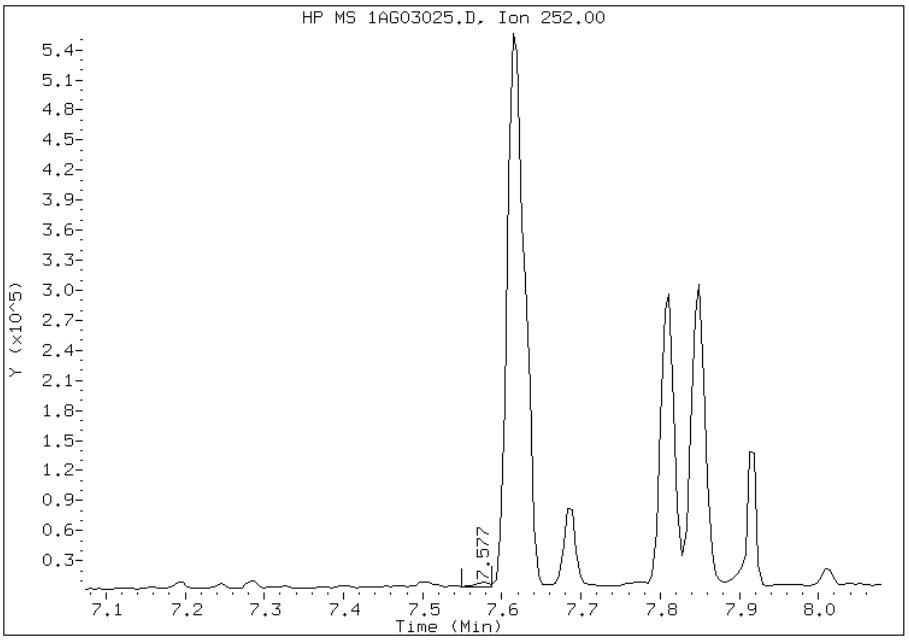
Processing Integration Results

RT: 7.58

Response: 5939

Amount: 0

Conc: 16



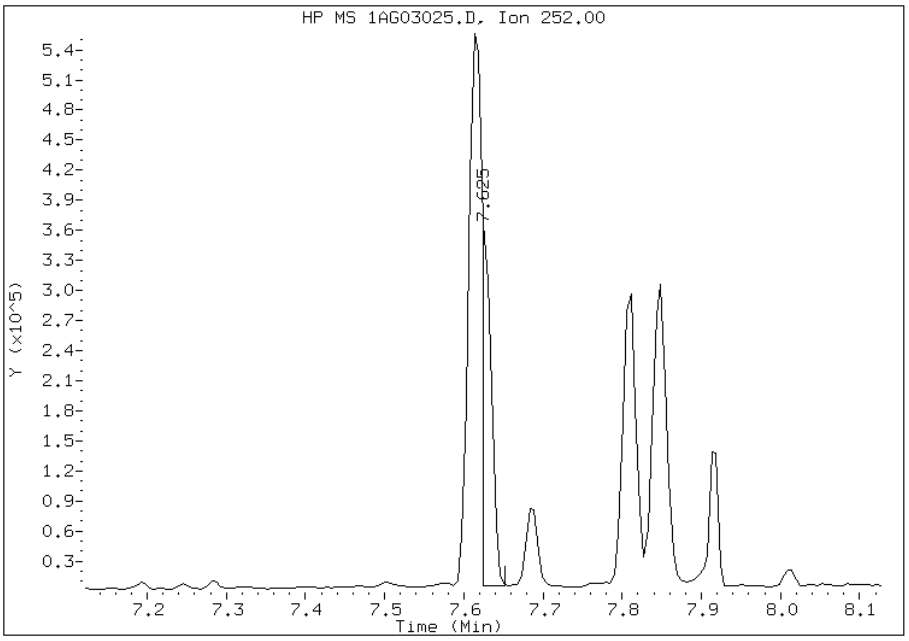
Manual Integration Results

RT: 7.62

Response: 299559

Amount: 2

Conc: 147



Manually Integrated By: cantins
Modification Date: 05-Jul-2013 11:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG03025.D
Inj. Date and Time: 03-JUL-2013 16:55
Instrument ID: BSMA5973.i
Client ID: CV1363K-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/05/2013

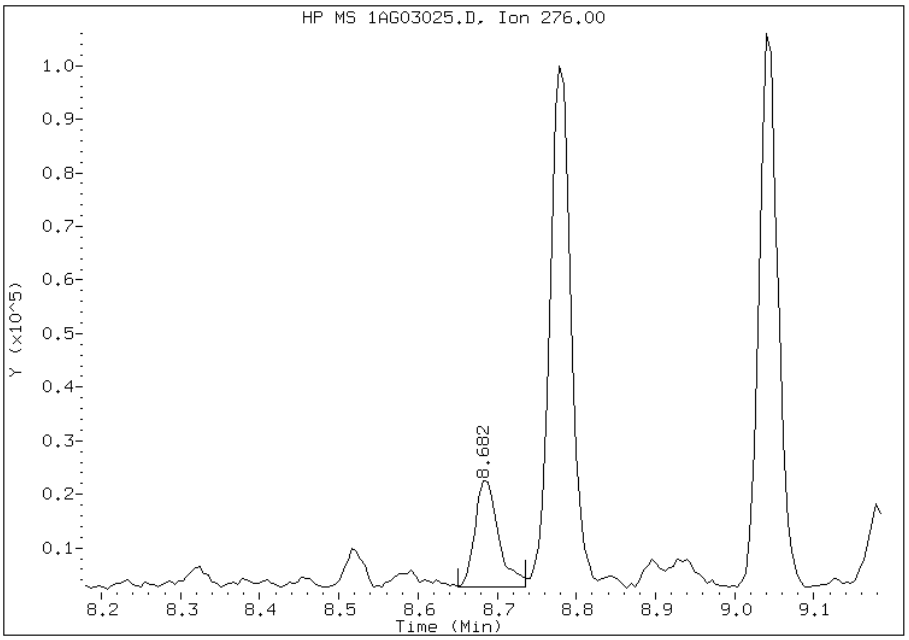
Processing Integration Results

RT: 8.68

Response: 40078

Amount: 0

Conc: 27



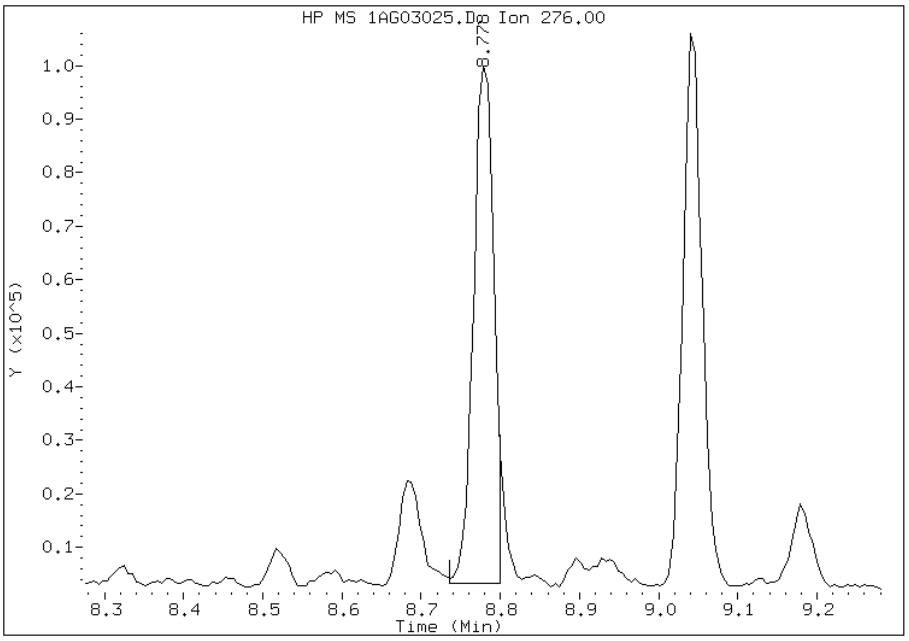
Manual Integration Results

RT: 8.78

Response: 172241

Amount: 2

Conc: 117



Manually Integrated By: cantins
Modification Date: 05-Jul-2013 11:01
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363L-CS | Lab Sample ID: 680-91719-18

Matrix: Solid | Lab File ID: 1AG07018.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 08:48

Extract. Method: 3546 | Date Extracted: 07/03/2013 11:12

Sample wt/vol: 15.11(g) | Date Analyzed: 07/07/2013 17:54

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139145 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	43	J	110	23
208-96-8	Acenaphthylene	71		46	5.7
120-12-7	Anthracene	220		9.6	4.8
56-55-3	Benzo[a]anthracene	610		9.2	4.5
50-32-8	Benzo[a]pyrene	440		12	6.0
205-99-2	Benzo[b]fluoranthene	660		14	7.0
191-24-2	Benzo[g,h,i]perylene	420		23	5.0
207-08-9	Benzo[k]fluoranthene	200		9.2	4.1
218-01-9	Chrysene	640		10	5.2
53-70-3	Dibenz(a,h)anthracene	120		23	4.7
206-44-0	Fluoranthene	1300		23	4.6
86-73-7	Fluorene	47		23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	380		23	8.1
90-12-0	1-Methylnaphthalene	88		46	5.0
91-57-6	2-Methylnaphthalene	110		46	8.1
91-20-3	Naphthalene	95		46	5.0
85-01-8	Phenanthrene	790		9.2	4.5
129-00-0	Pyrene	1000		23	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	56		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07018.D
Lab Smp Id: 680-91719-A-18-A Client Smp ID: CV1363L-CS
Inj Date : 07-JUL-2013 17:54
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-a-18-a
Misc Info : 680-91719-A-18-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:45 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.110	Weight Extracted
M	13.363	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.677	2.683	(1.000)	2642950	40.0000	
* 7 Acenaphthene-d10	164	3.714	3.714	(1.000)	1534347	40.0000	
* 11 Phenanthrene-d10	188	4.691	4.692	(1.000)	2286211	40.0000	
$ 15 o-Terphenyl	230	4.980	4.986	(1.061)	195928	5.63974	430.8155
* 19 Chrysene-d12	240	6.748	6.748	(1.000)	2228881	40.0000	
* 24 Perylene-d12	264	7.854	7.849	(1.000)	2780123	40.0000	
2 Naphthalene	128	2.688	2.694	(1.004)	74398	1.24590	95.1733
3 2-Methylnaphthalene	141	3.094	3.100	(1.156)	51081	1.49936	114.5346
4 1-Methylnaphthalene	142	3.153	3.153	(1.178)	45820	1.15180	87.9851
6 Acenaphthylene	152	3.623	3.629	(0.976)	63989	0.93490	71.4166
8 Acenaphthene	154	3.730	3.735	(1.004)	20242	0.56436	43.1112
10 Fluorene	166	4.050	4.056	(1.091)	29721	0.61932	47.3097
12 Phenanthrene	178	4.702	4.708	(1.002)	600820	10.3259	788.7855
13 Anthracene	178	4.734	4.740	(1.009)	177490	2.92526	223.4584

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Fluoranthene	202	5.589	5.589	(1.191)	1183707	16.9063	1291.4559
17 Pyrene	202	5.760	5.760	(0.854)	1002167	13.5061	1031.7176
18 Benzo(a)anthracene	228	6.737	6.732	(0.998)	569529	7.94580	606.9740
20 Chrysene	228	6.764	6.764	(1.002)	503523	8.33928	637.0315
21 Benzo(b)fluoranthene	252	7.571	7.566	(0.964)	688896	8.70472	664.9468(M)
22 Benzo(k)fluoranthene	252	7.581	7.587	(0.965)	212603	2.60178	198.7478(QM)
23 Benzo(a)pyrene	252	7.800	7.795	(0.993)	423042	5.78020	441.5449
25 Indeno(1,2,3-cd)pyrene	276	8.703	8.693	(1.108)	313302	4.90946	375.0302(M)
26 Dibenzo(a,h)anthracene	278	8.719	8.720	(1.110)	94637	1.56846	119.8131
27 Benzo(g,h,i)perylene	276	8.959	8.944	(1.141)	335106	5.53853	423.0838

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AG07018.D

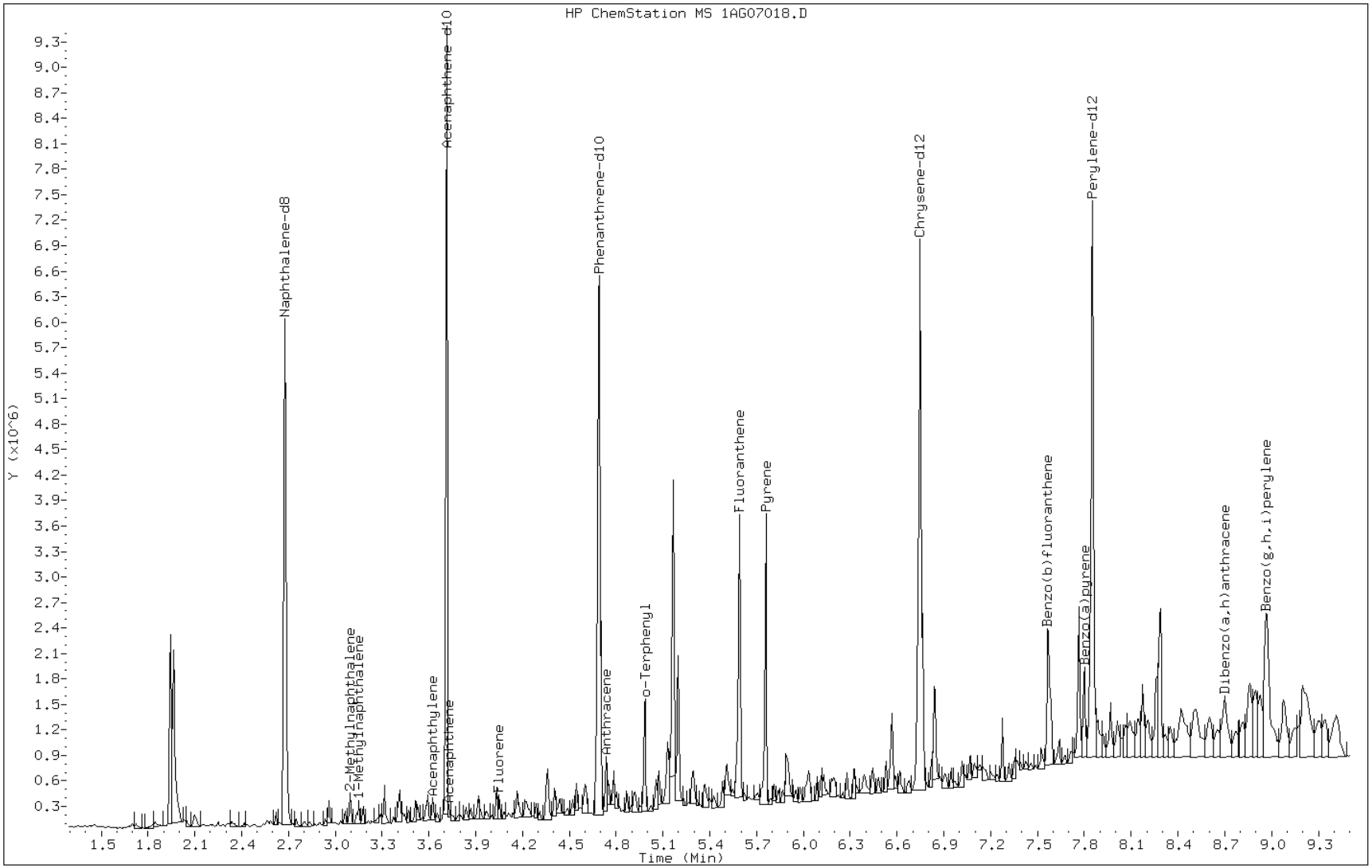
Date: 07-JUL-2013 17:54

Client ID: CV1363L-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-18-a

Operator: SCC



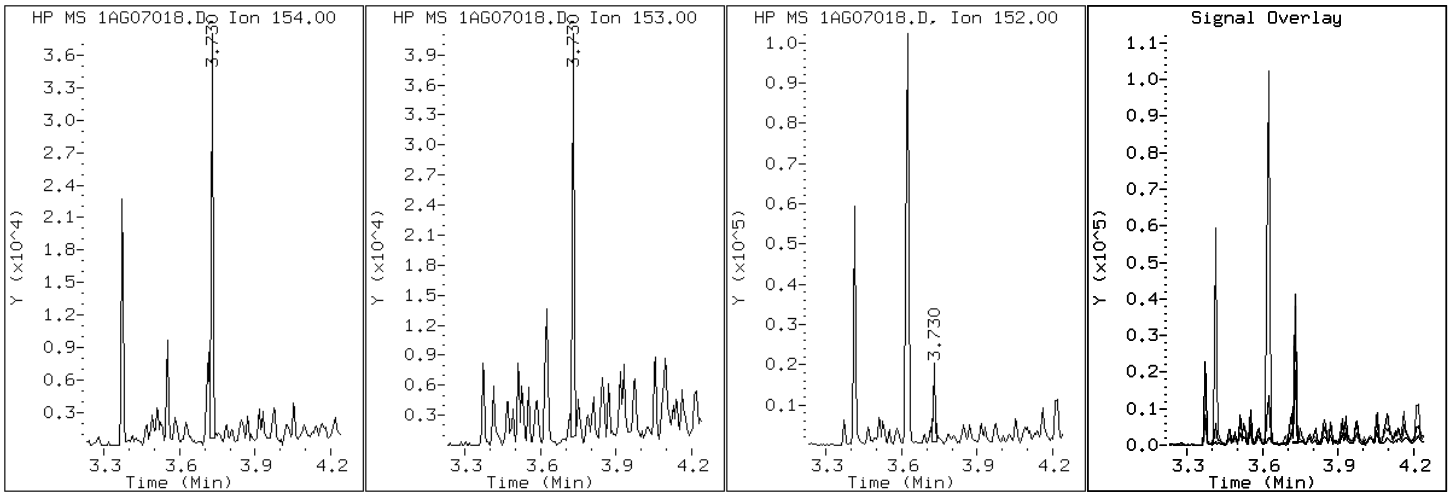
Data File: 1AG07018.D

Date: 07-JUL-2013 17:54

Client ID: CV1363L-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-18-a Operator: SCC

8 Acenaphthene



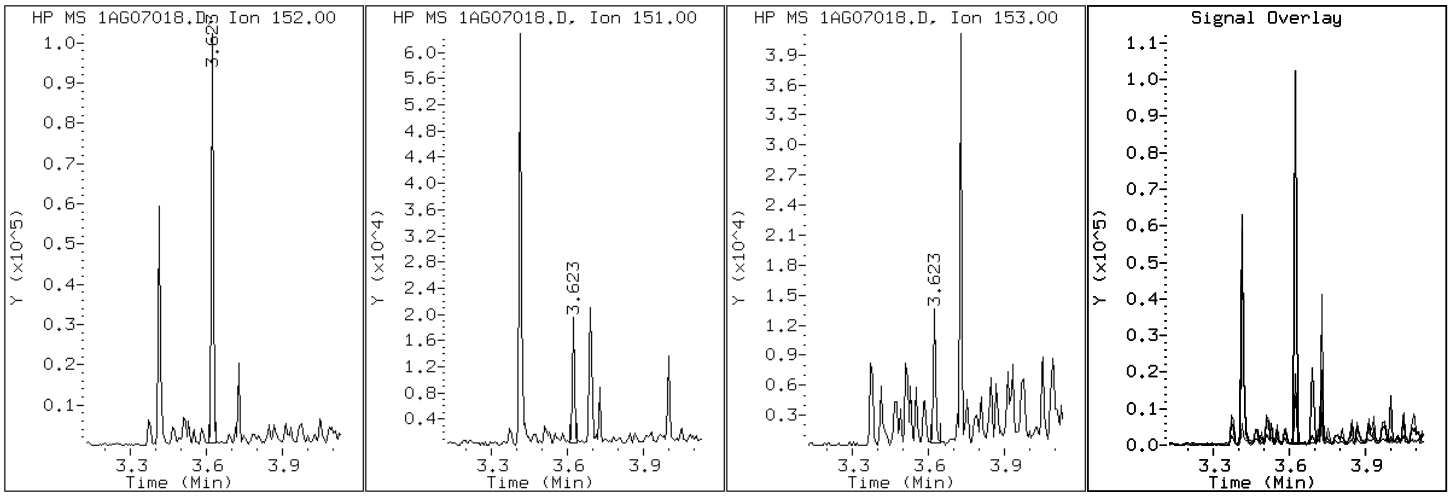
Data File: 1AG07018.D

Date: 07-JUL-2013 17:54

Client ID: CV1363L-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-18-a Operator: SCC

6 Acenaphthylene



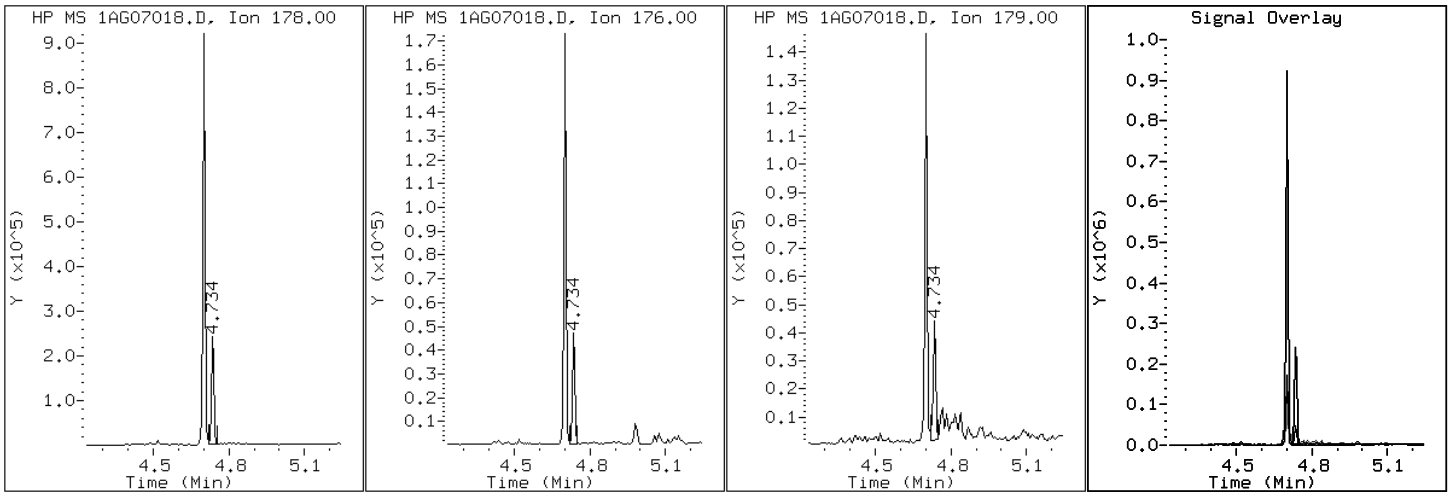
Data File: 1AG07018.D

Date: 07-JUL-2013 17:54

Client ID: CV1363L-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-18-a Operator: SCC

13 Anthracene



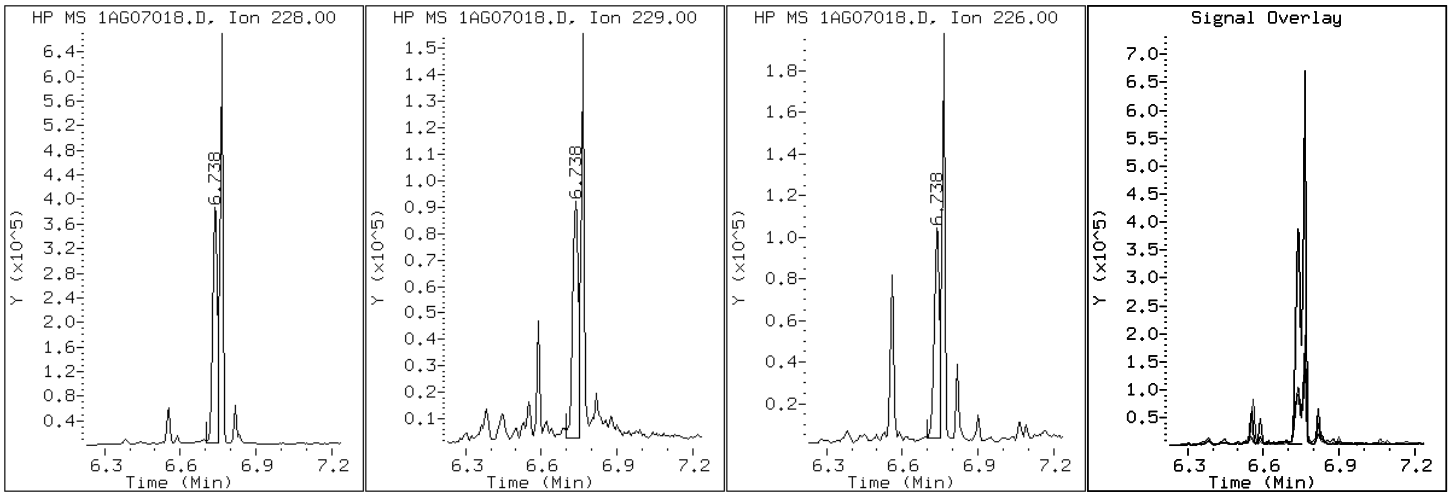
Data File: 1AG07018.D

Date: 07-JUL-2013 17:54

Client ID: CV1363L-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-18-a Operator: SCC

18 Benzo(a)anthracene



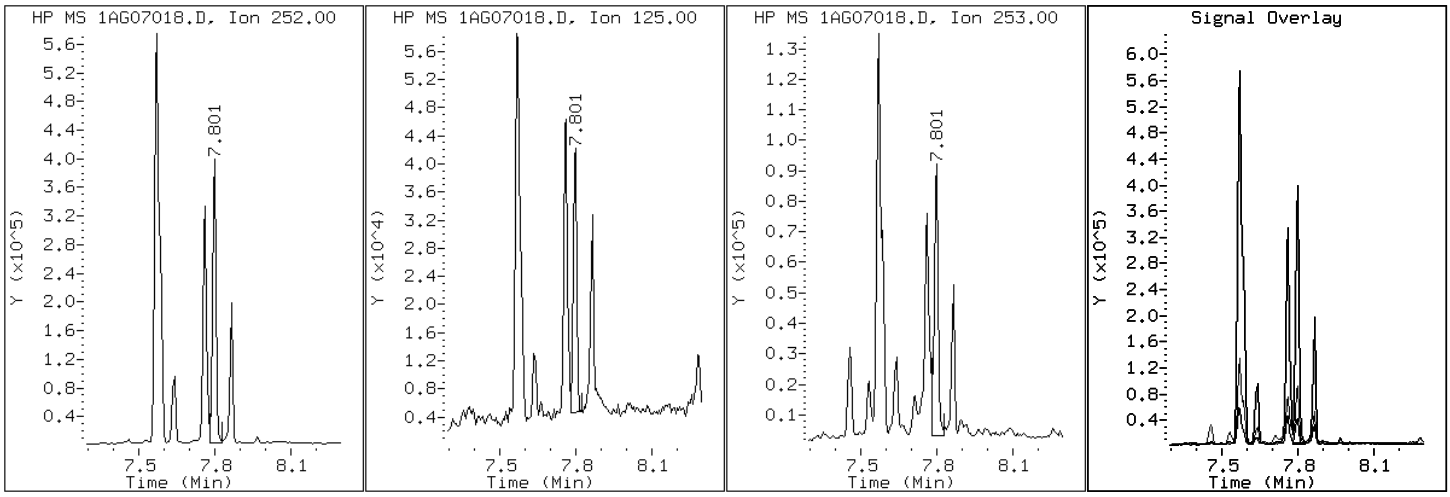
Data File: 1AG07018.D

Date: 07-JUL-2013 17:54

Client ID: CV1363L-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-18-a Operator: SCC

23 Benzo(a)pyrene



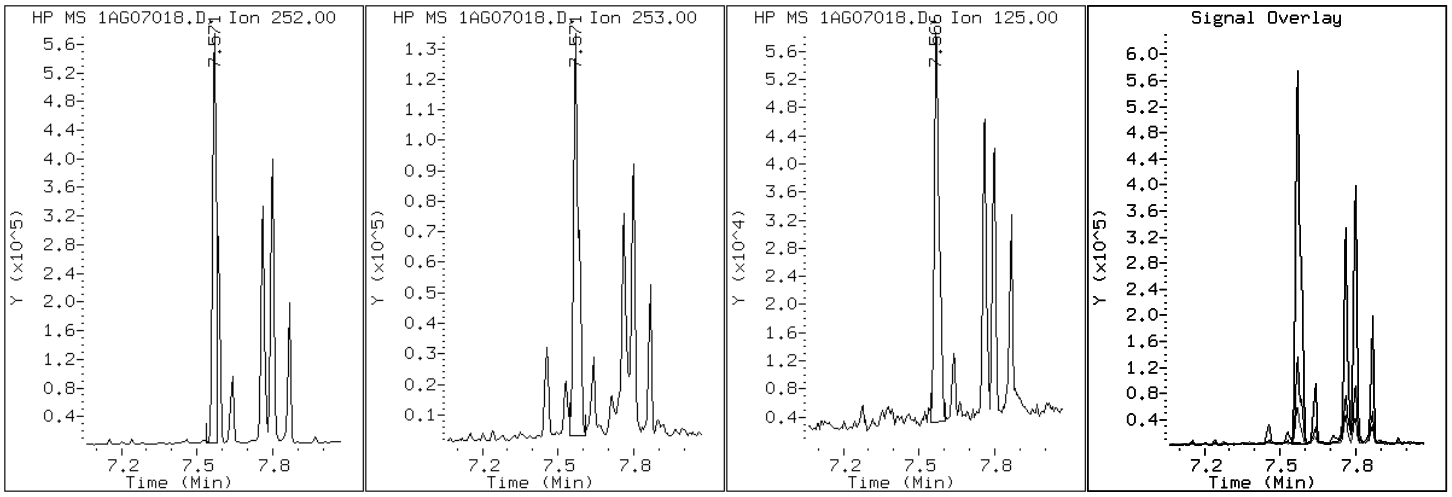
Data File: 1AG07018.D

Date: 07-JUL-2013 17:54

Client ID: CV1363L-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-18-a Operator: SCC

21 Benzo(b)fluoranthene



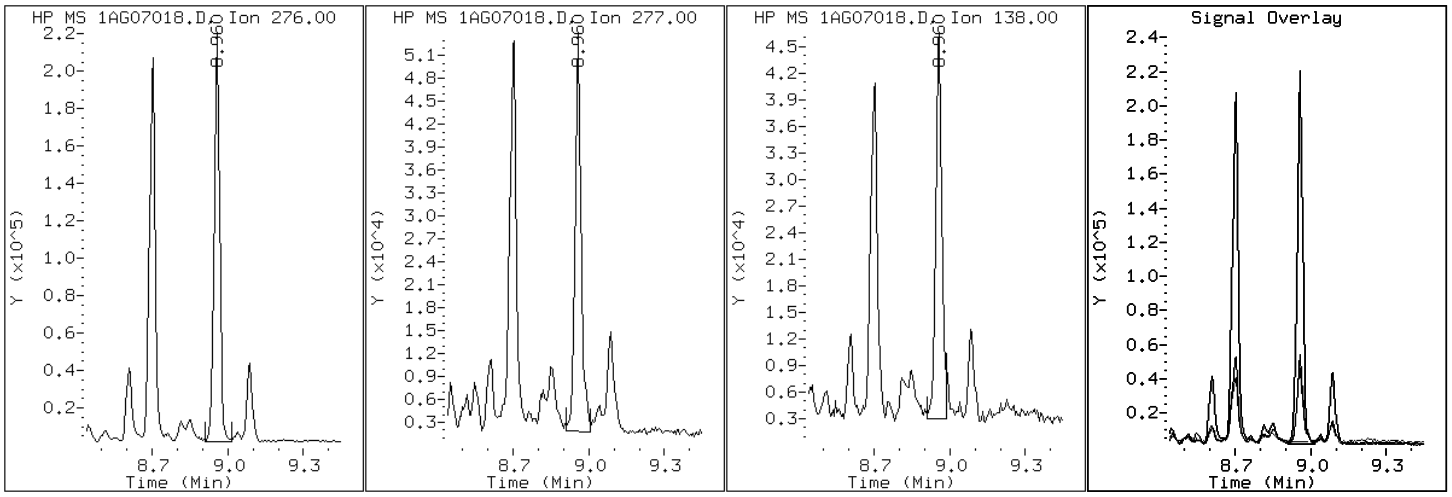
Data File: 1AG07018.D

Date: 07-JUL-2013 17:54

Client ID: CV1363L-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-18-a Operator: SCC

27 Benzo(g,h,i)perylene



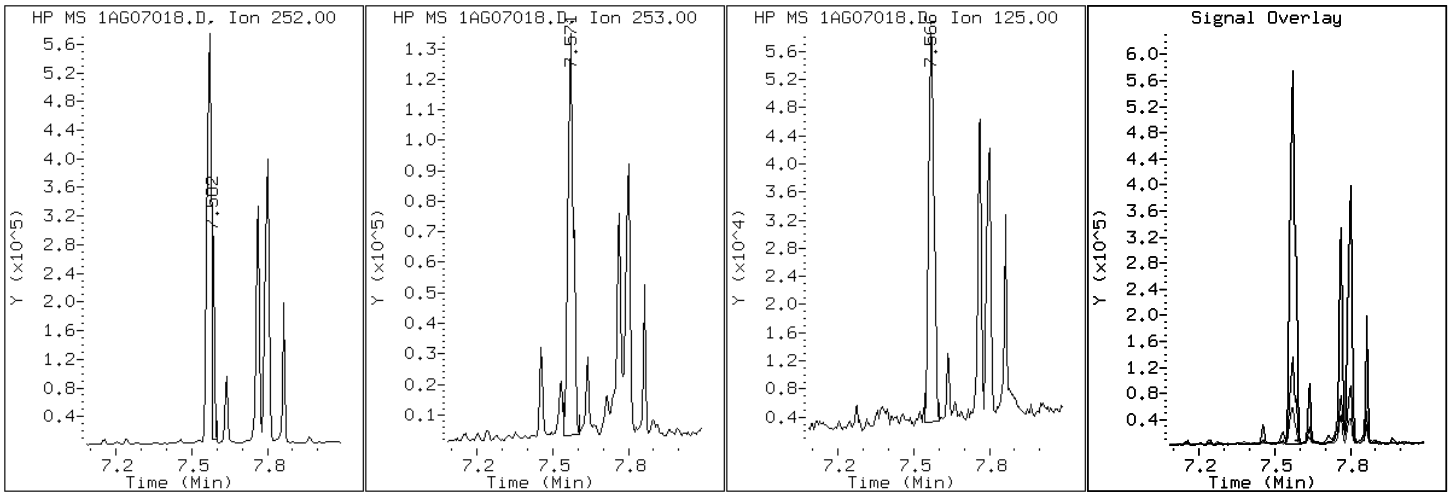
Data File: 1AG07018.D

Date: 07-JUL-2013 17:54

Client ID: CV1363L-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-18-a Operator: SCC

22 Benzo(k)fluoranthene



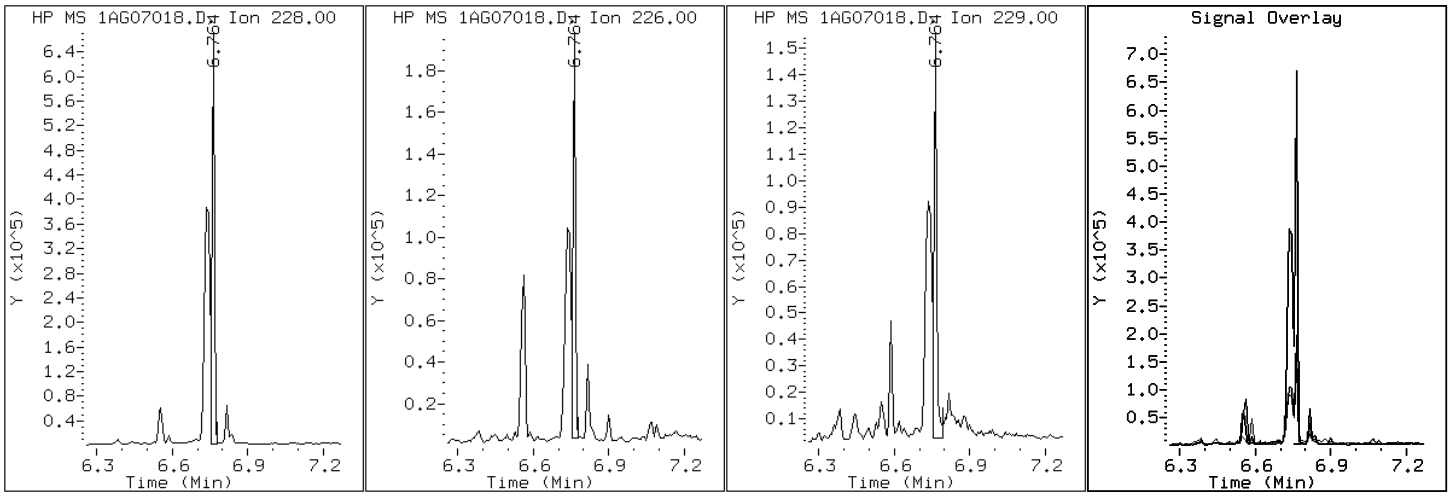
Data File: 1AG07018.D

Date: 07-JUL-2013 17:54

Client ID: CV1363L-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-18-a Operator: SCC

20 Chrysene



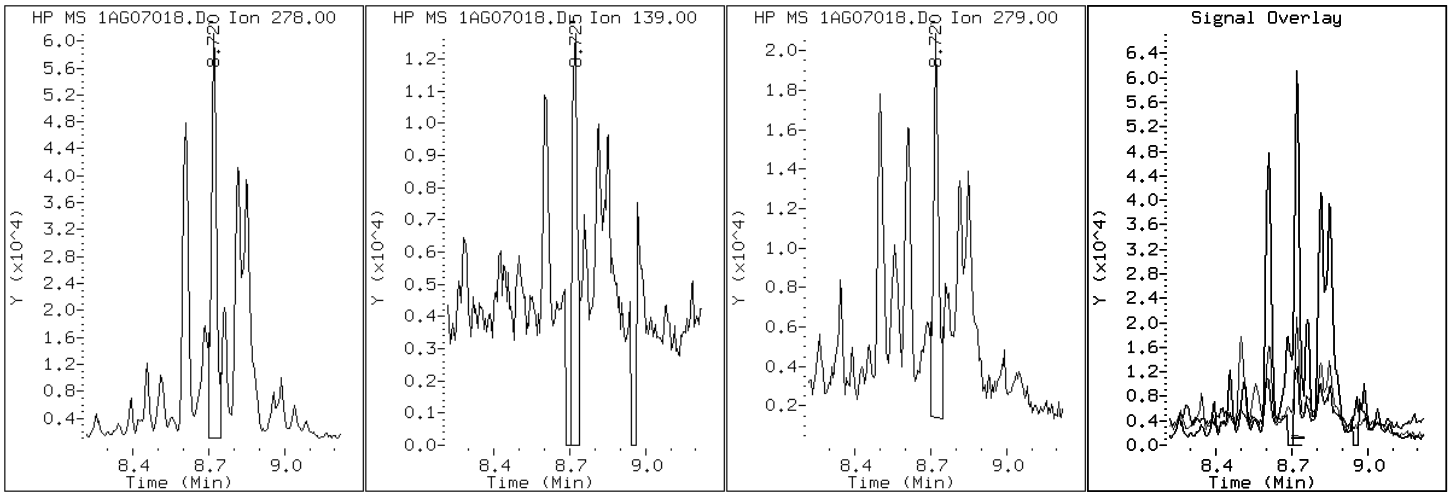
Data File: 1AG07018.D

Date: 07-JUL-2013 17:54

Client ID: CV1363L-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-18-a Operator: SCC

26 Dibenzo(a,h)anthracene



Data File: 1AG07018.D

Date: 07-JUL-2013 17:54

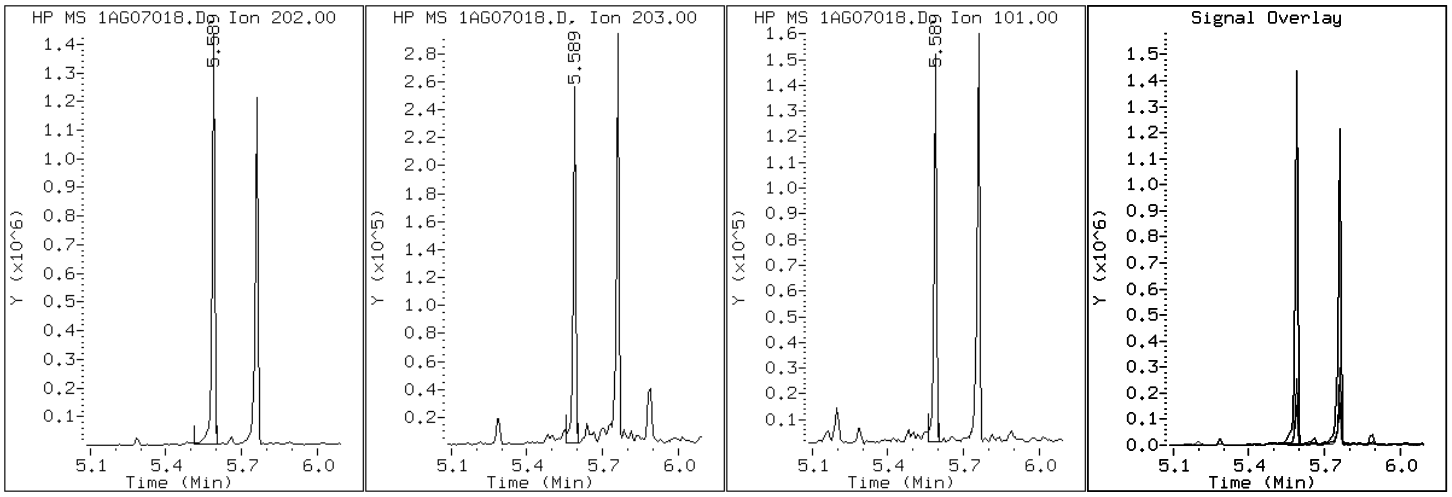
Client ID: CV1363L-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-18-a

Operator: SCC

16 Fluoranthene



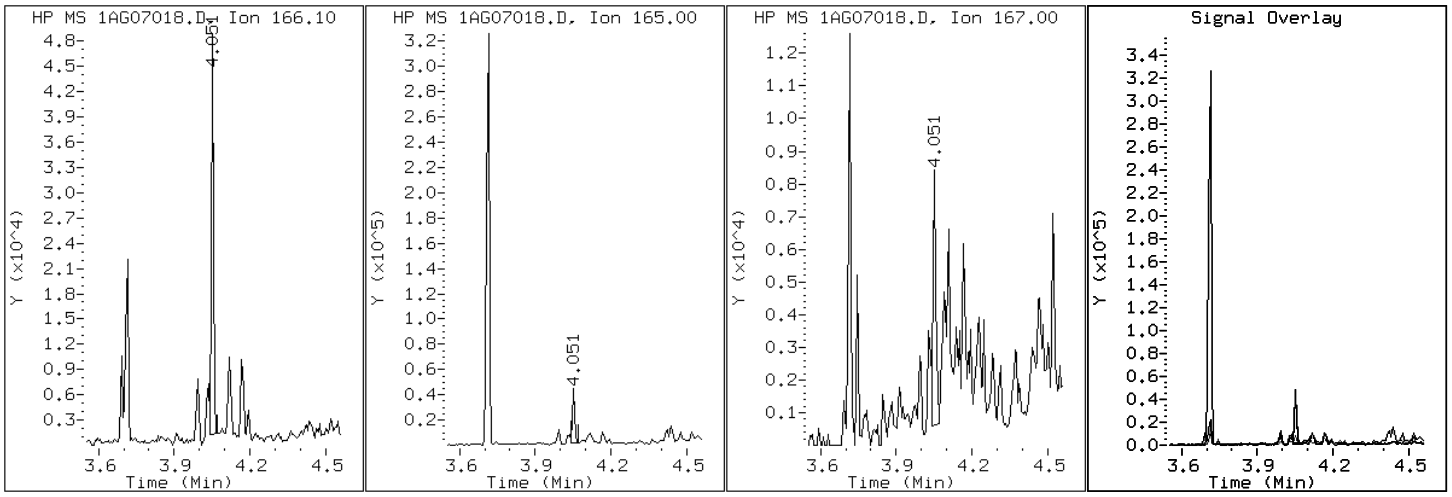
Data File: 1AG07018.D

Date: 07-JUL-2013 17:54

Client ID: CV1363L-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-18-a Operator: SCC

10 Fluorene



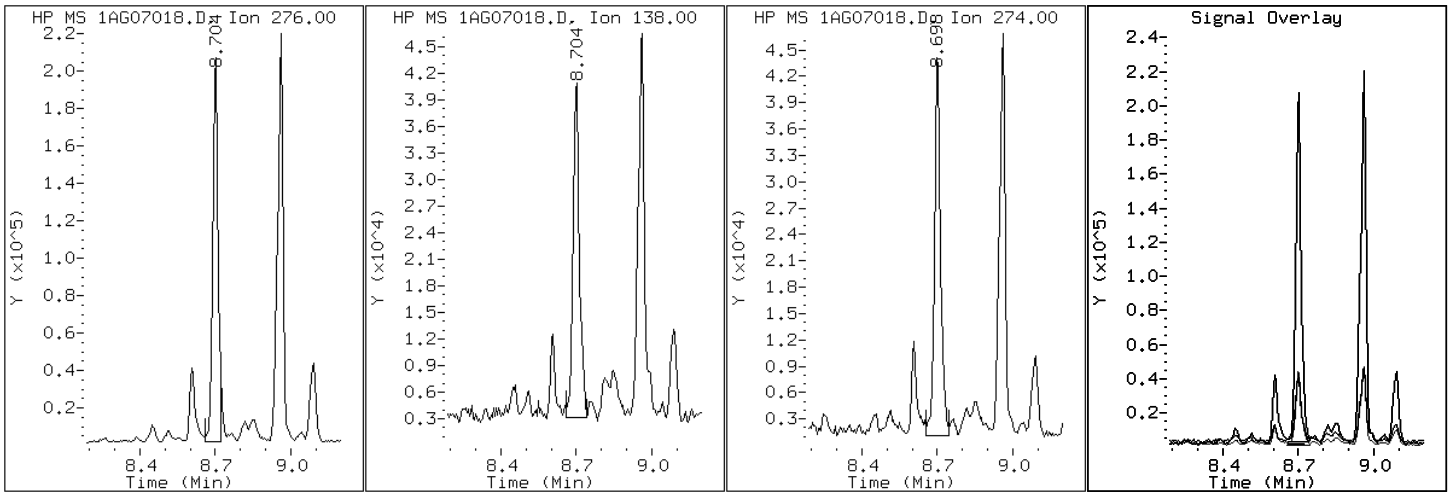
Data File: 1AG07018.D

Date: 07-JUL-2013 17:54

Client ID: CV1363L-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-18-a Operator: SCC

25 Indeno(1,2,3-cd)pyrene



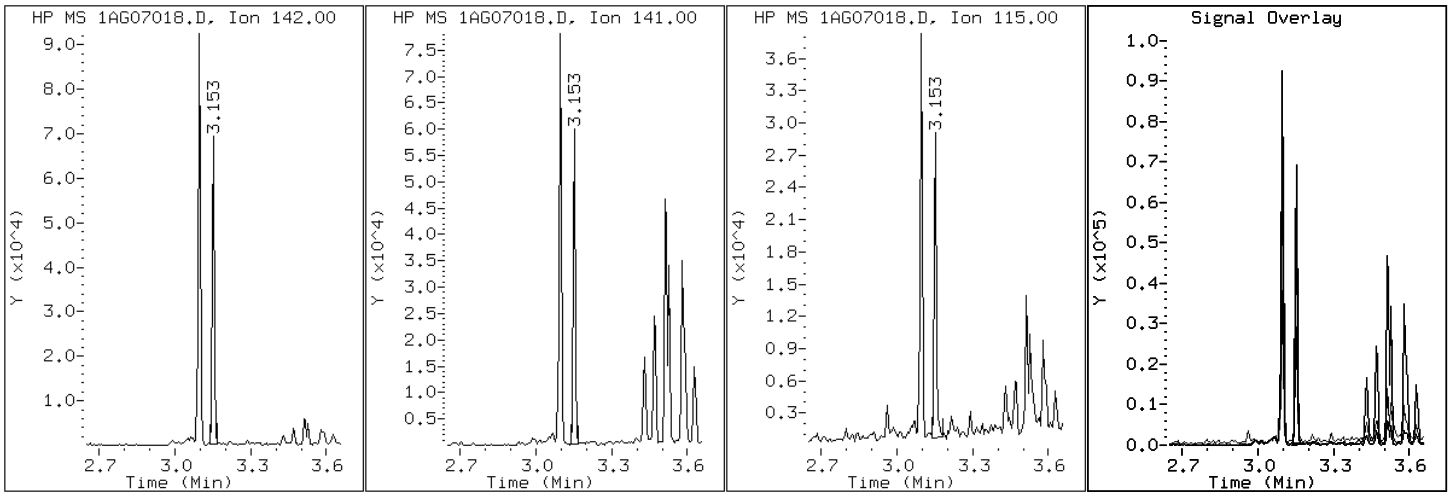
Data File: 1AG07018.D

Date: 07-JUL-2013 17:54

Client ID: CV1363L-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-18-a Operator: SCC

4 1-Methylnaphthalene



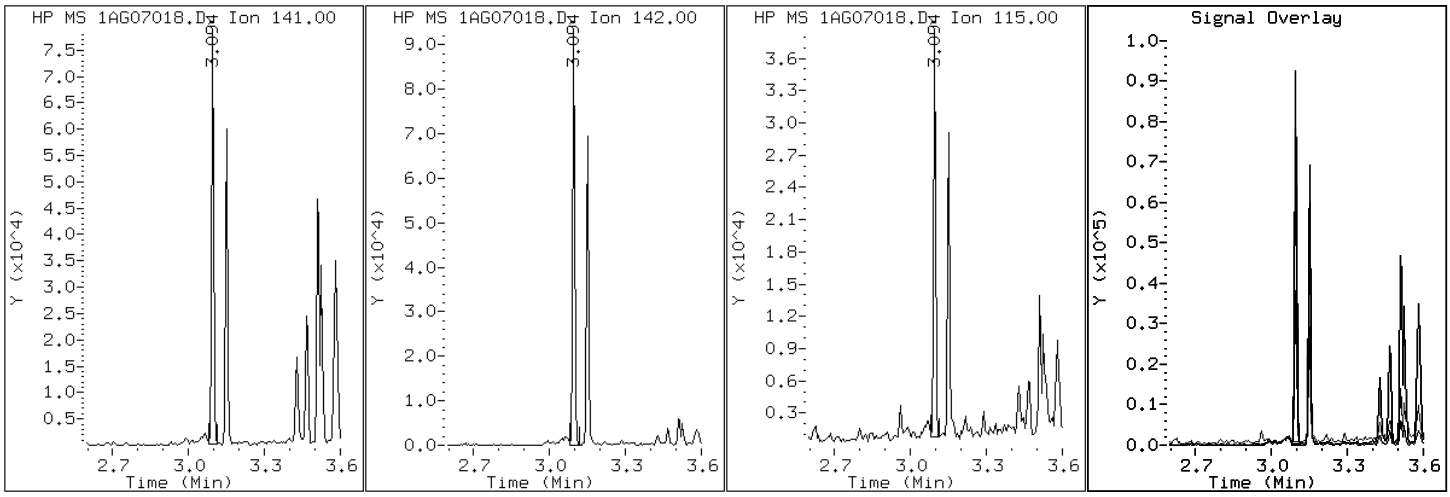
Data File: 1AG07018.D

Date: 07-JUL-2013 17:54

Client ID: CV1363L-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-18-a Operator: SCC

3 2-Methylnaphthalene



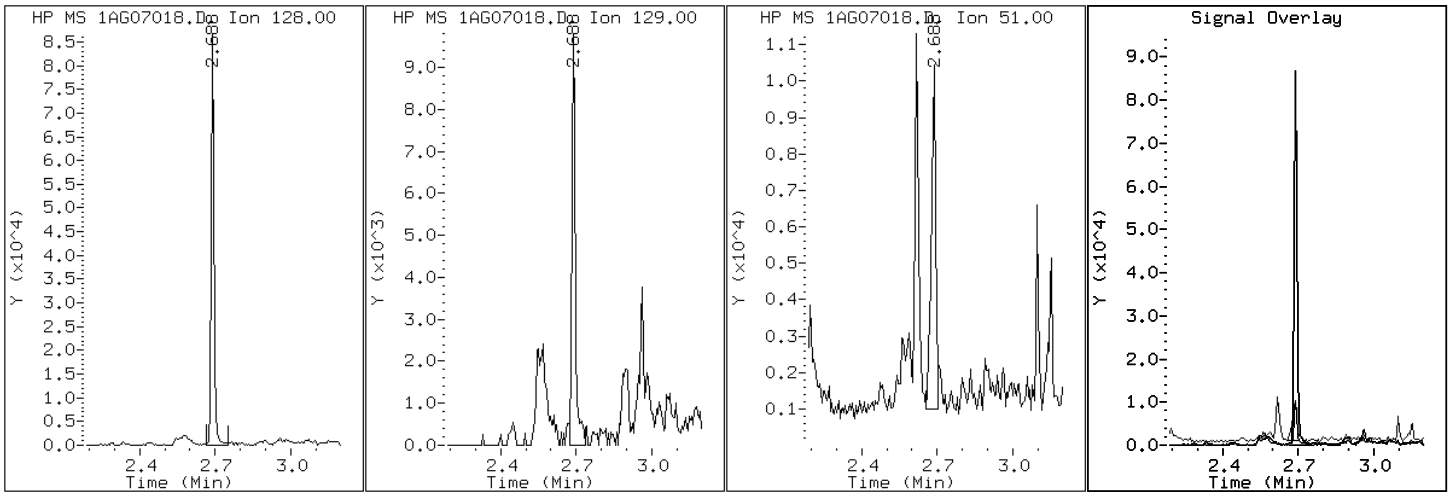
Data File: 1AG07018.D

Date: 07-JUL-2013 17:54

Client ID: CV1363L-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-18-a Operator: SCC

2 Naphthalene



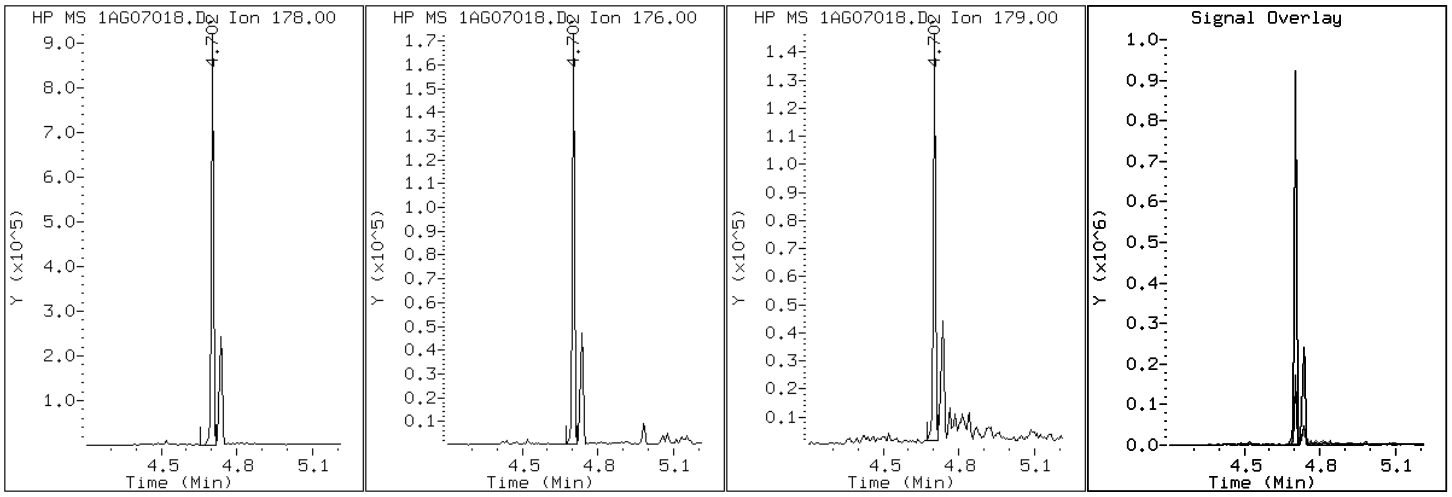
Data File: 1AG07018.D

Date: 07-JUL-2013 17:54

Client ID: CV1363L-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-18-a Operator: SCC

12 Phenanthrene



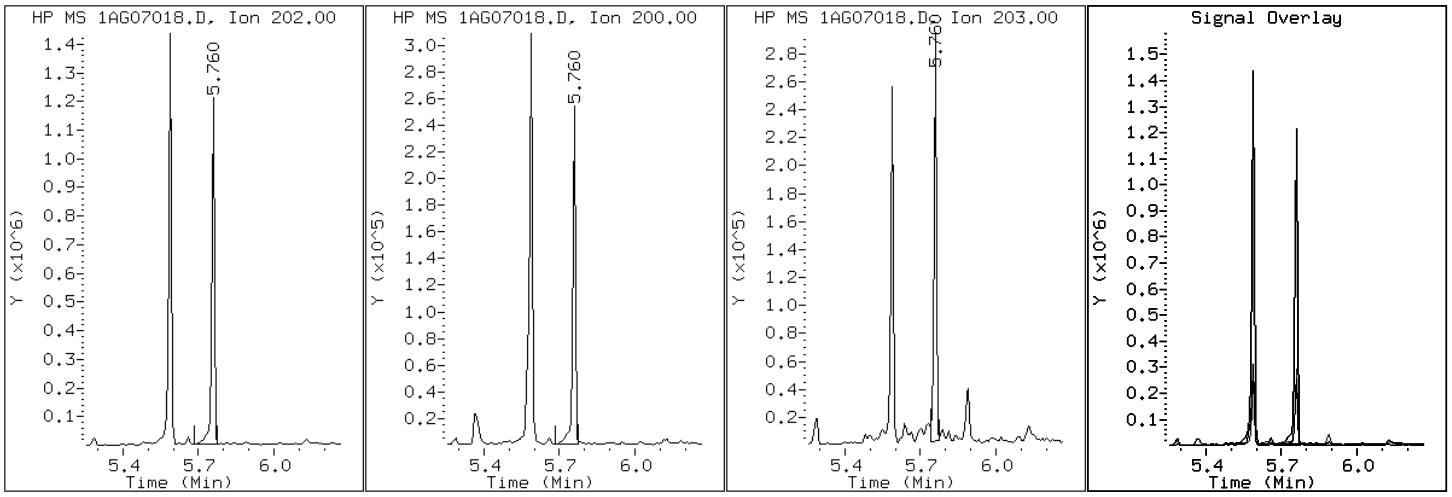
Data File: 1AG07018.D

Date: 07-JUL-2013 17:54

Client ID: CV1363L-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-18-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG07018.D
Inj. Date and Time: 07-JUL-2013 17:54
Instrument ID: BSMA5973.i
Client ID: CV1363L-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/08/2013

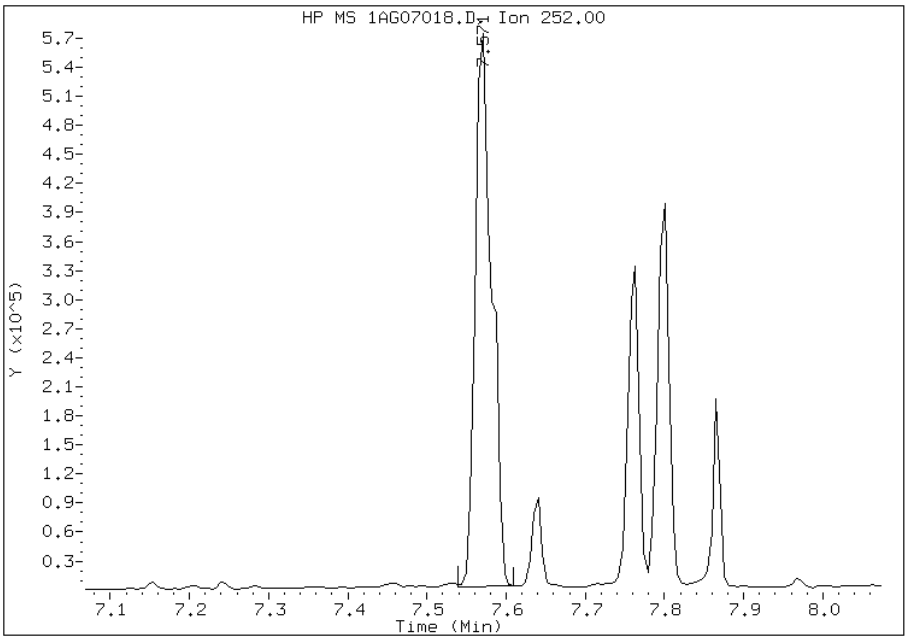
Processing Integration Results

RT: 7.57

Response: 815072

Amount: 10

Conc: 787



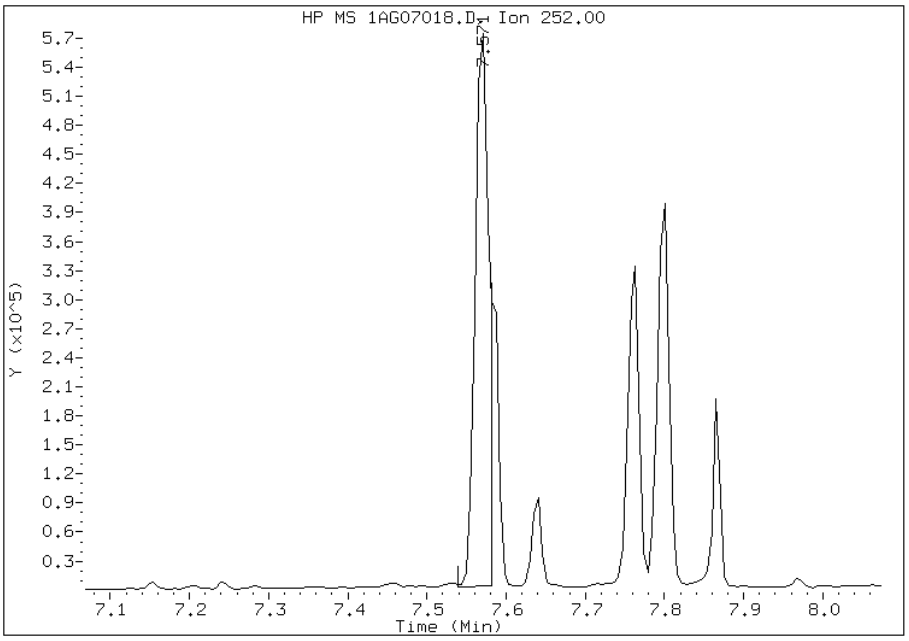
Manual Integration Results

RT: 7.57

Response: 688896

Amount: 9

Conc: 665



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:03
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG07018.D
Inj. Date and Time: 07-JUL-2013 17:54
Instrument ID: BSMA5973.i
Client ID: CV1363L-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/08/2013

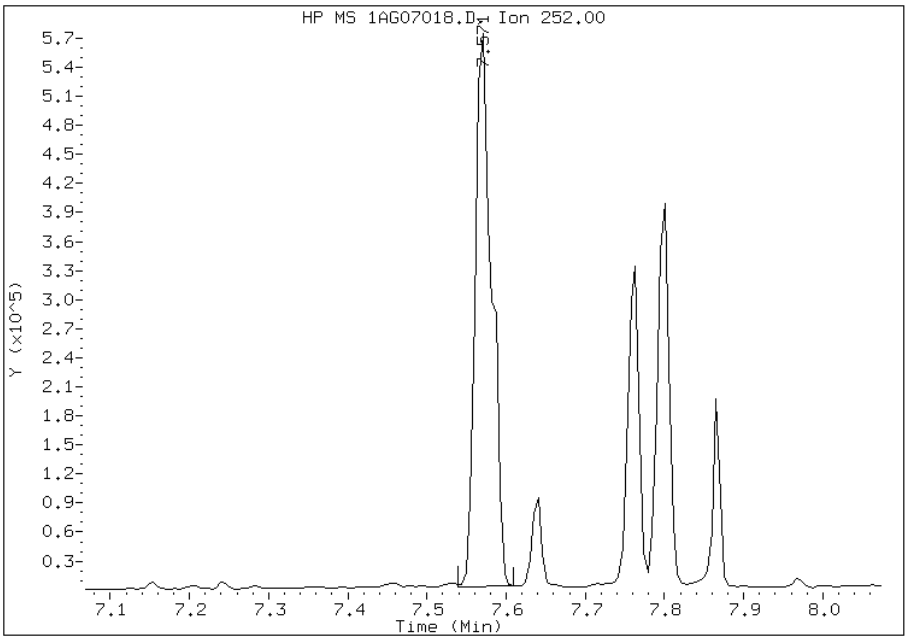
Processing Integration Results

RT: 7.57

Response: 815029

Amount: 10

Conc: 762



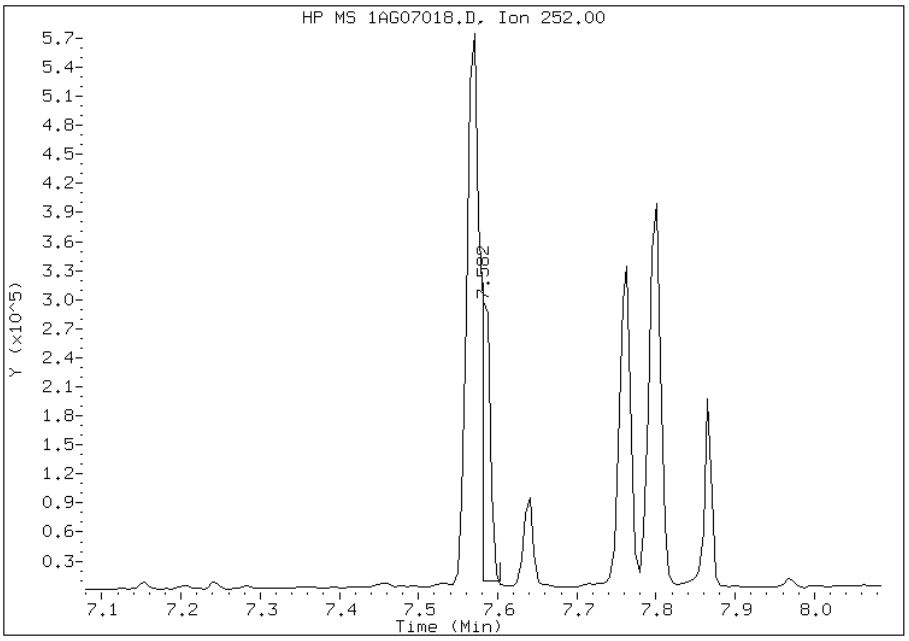
Manual Integration Results

RT: 7.58

Response: 212603

Amount: 3

Conc: 199



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:03
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG07018.D
Inj. Date and Time: 07-JUL-2013 17:54
Instrument ID: BSMA5973.i
Client ID: CV1363L-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

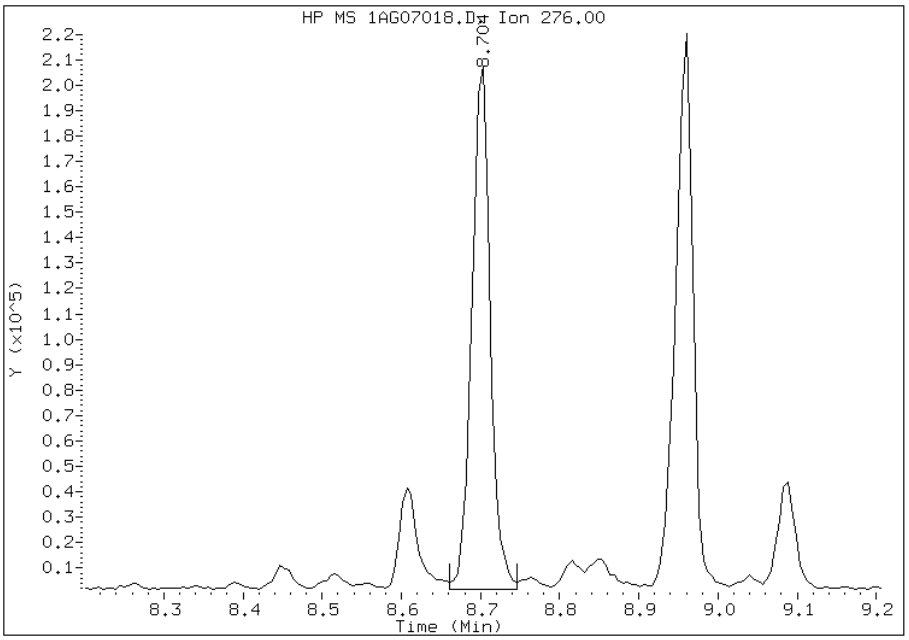
Processing Integration Results

RT: 8.70

Response: 327942

Amount: 5

Conc: 393



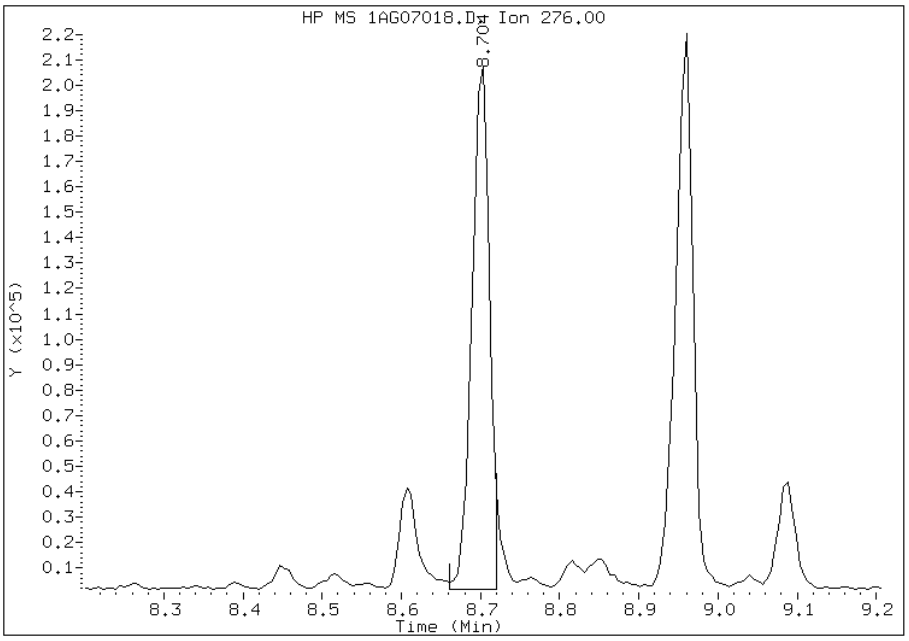
Manual Integration Results

RT: 8.70

Response: 313302

Amount: 5

Conc: 375



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:03
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363M-CS | Lab Sample ID: 680-91719-19

Matrix: Solid | Lab File ID: 1AG07019.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 09:20

Extract. Method: 3546 | Date Extracted: 07/03/2013 11:12

Sample wt/vol: 14.97(g) | Date Analyzed: 07/07/2013 18:09

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 14.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139145 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	J	120	23
208-96-8	Acenaphthylene	30	J	47	5.9
120-12-7	Anthracene	260		9.9	4.9
56-55-3	Benzo[a]anthracene	630		9.4	4.6
50-32-8	Benzo[a]pyrene	450		12	6.1
205-99-2	Benzo[b]fluoranthene	670		14	7.2
191-24-2	Benzo[g,h,i]perylene	390		23	5.2
207-08-9	Benzo[k]fluoranthene	240		9.4	4.2
218-01-9	Chrysene	720		11	5.3
53-70-3	Dibenz(a,h)anthracene	110		23	4.8
206-44-0	Fluoranthene	1600		23	4.7
86-73-7	Fluorene	100		23	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	340		23	8.3
90-12-0	1-Methylnaphthalene	51		47	5.2
91-57-6	2-Methylnaphthalene	66		47	8.3
91-20-3	Naphthalene	62		47	5.2
85-01-8	Phenanthrene	1200		9.4	4.6
129-00-0	Pyrene	1200		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	60		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07019.D
Lab Smp Id: 680-91719-A-19-A Client Smp ID: CV1363M-CS
Inj Date : 07-JUL-2013 18:09
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-a-19-a
Misc Info : 680-91719-A-19-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:45 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	14.694	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.679	2.683	(1.000)	2775357	40.0000	
* 7 Acenaphthene-d10	164	3.715	3.714	(1.000)	1631402	40.0000	
* 11 Phenanthrene-d10	188	4.693	4.692	(1.000)	2366064	40.0000	
$ 15 o-Terphenyl	230	4.986	4.986	(1.063)	215697	5.99924	469.7800
* 19 Chrysene-d12	240	6.755	6.748	(1.000)	2352174	40.0000	
* 24 Perylene-d12	264	7.866	7.849	(1.000)	2949863	40.0000	
2 Naphthalene	128	2.689	2.694	(1.004)	49765	0.79363	62.1461
3 2-Methylnaphthalene	141	3.095	3.100	(1.156)	29957	0.83736	65.5710
4 1-Methylnaphthalene	142	3.154	3.153	(1.177)	26986	0.64600	50.5857
6 Acenaphthylene	152	3.624	3.629	(0.976)	27584	0.37904	29.6810
8 Acenaphthene	154	3.731	3.735	(1.004)	48877	1.28166	100.3621
10 Fluorene	166	4.052	4.056	(1.091)	64899	1.27191	99.5986
12 Phenanthrene	178	4.709	4.708	(1.003)	899004	14.9291	1169.0463
13 Anthracene	178	4.741	4.740	(1.010)	208127	3.31443	259.5414

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Fluoranthene	202	5.595	5.589	(1.192)	1495303	20.6358	1615.9210
17 Pyrene	202	5.766	5.760	(0.854)	1169719	14.9378	1169.7295
18 Benzo(a)anthracene	228	6.744	6.732	(0.998)	606062	8.01316	627.4824
20 Chrysene	228	6.771	6.764	(1.002)	583612	9.15906	717.2144
21 Benzo(b)fluoranthene	252	7.577	7.566	(0.963)	715590	8.52172	667.3065(M)
22 Benzo(k)fluoranthene	252	7.588	7.587	(0.965)	262001	3.02180	236.6267(QM)
23 Benzo(a)pyrene	252	7.807	7.795	(0.993)	446181	5.74556	449.9149
25 Indeno(1,2,3-cd)pyrene	276	8.715	8.693	(1.108)	290958	4.29698	336.4815(M)
26 Dibenzo(a,h)anthracene	278	8.731	8.720	(1.110)	90046	1.40649	110.1376
27 Benzo(g,h,i)perylene	276	8.972	8.944	(1.141)	318312	4.95824	388.2622

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AG07019.D

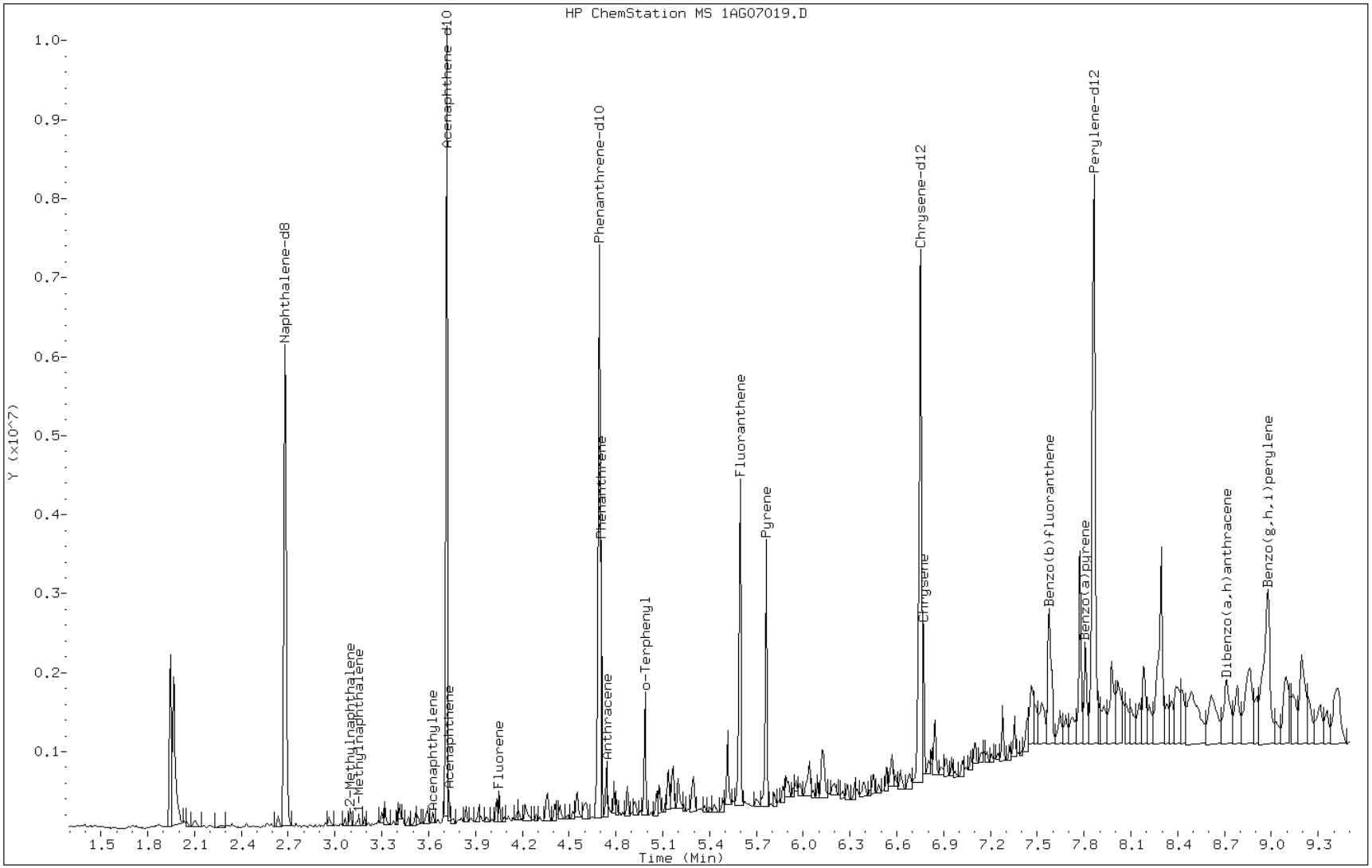
Date: 07-JUL-2013 18:09

Client ID: CV1363M-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-19-a

Operator: SCC



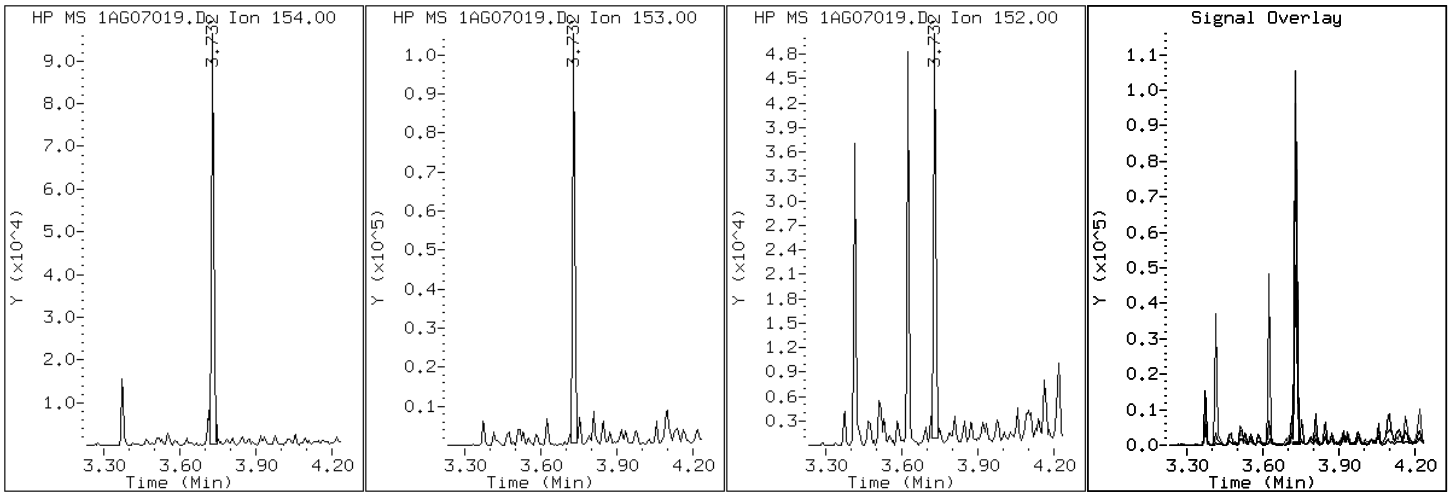
Data File: 1AG07019.D

Date: 07-JUL-2013 18:09

Client ID: CV1363M-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-19-a Operator: SCC

8 Acenaphthene



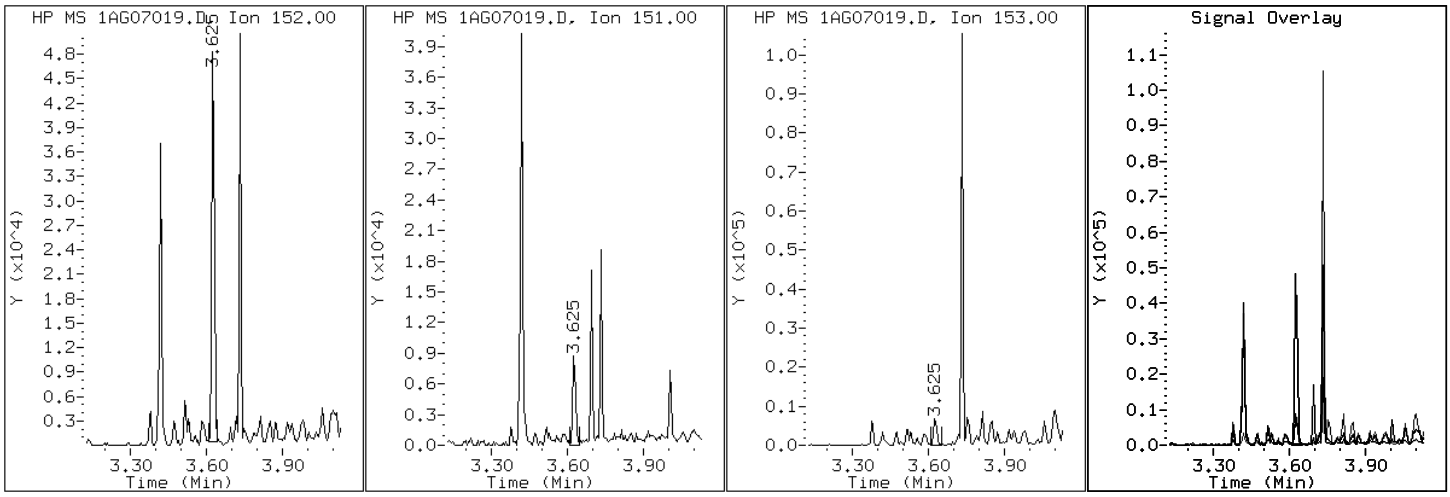
Data File: 1AG07019.D

Date: 07-JUL-2013 18:09

Client ID: CV1363M-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-19-a Operator: SCC

6 Acenaphthylene



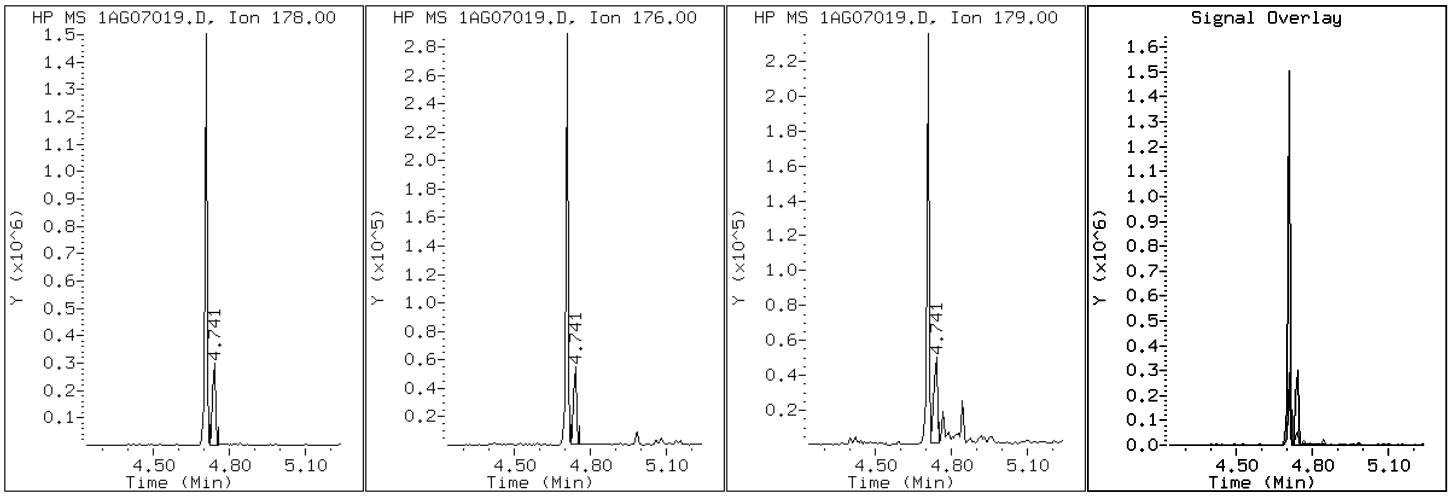
Data File: 1AG07019.D

Date: 07-JUL-2013 18:09

Client ID: CV1363M-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-19-a Operator: SCC

13 Anthracene



Data File: 1AG07019.D

Date: 07-JUL-2013 18:09

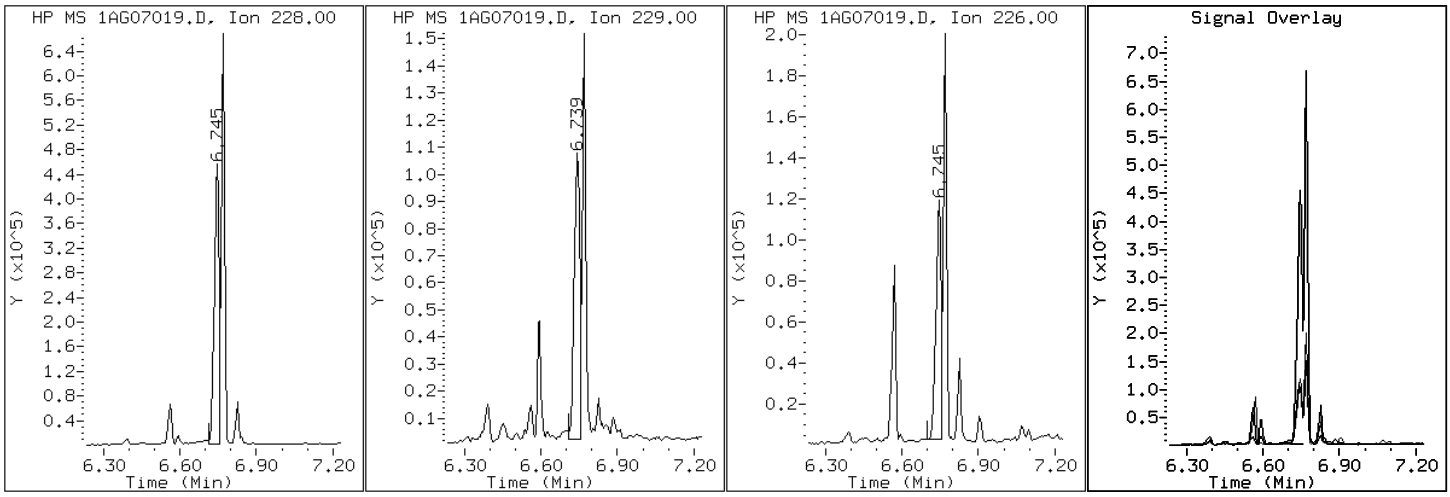
Client ID: CV1363M-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-19-a

Operator: SCC

18 Benzo(a)anthracene



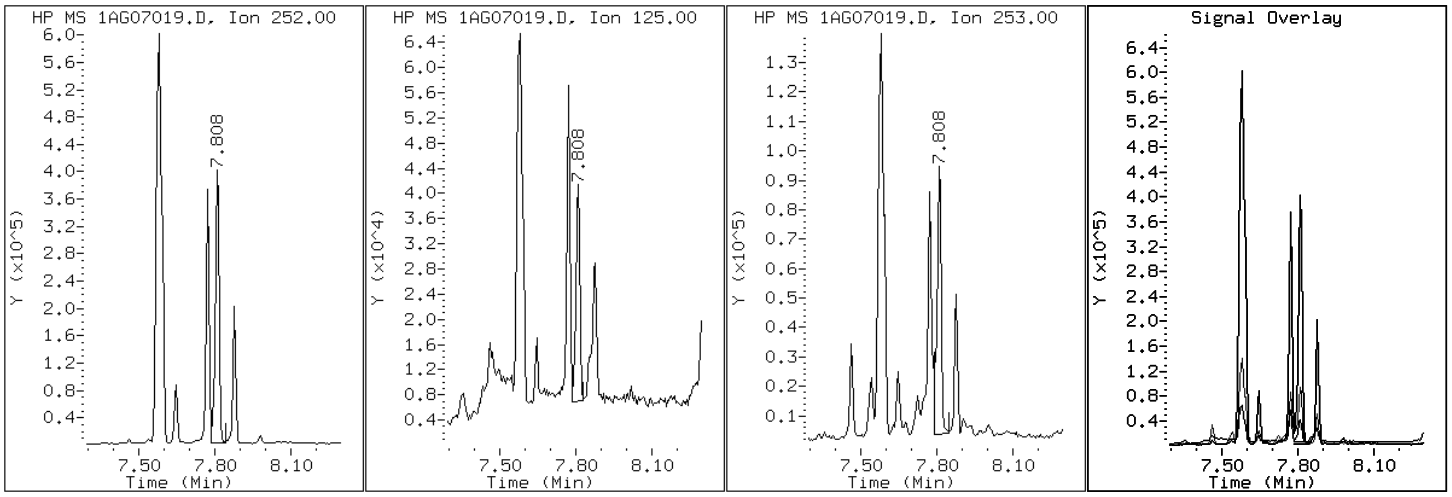
Data File: 1AG07019.D

Date: 07-JUL-2013 18:09

Client ID: CV1363M-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-19-a Operator: SCC

23 Benzo(a)pyrene



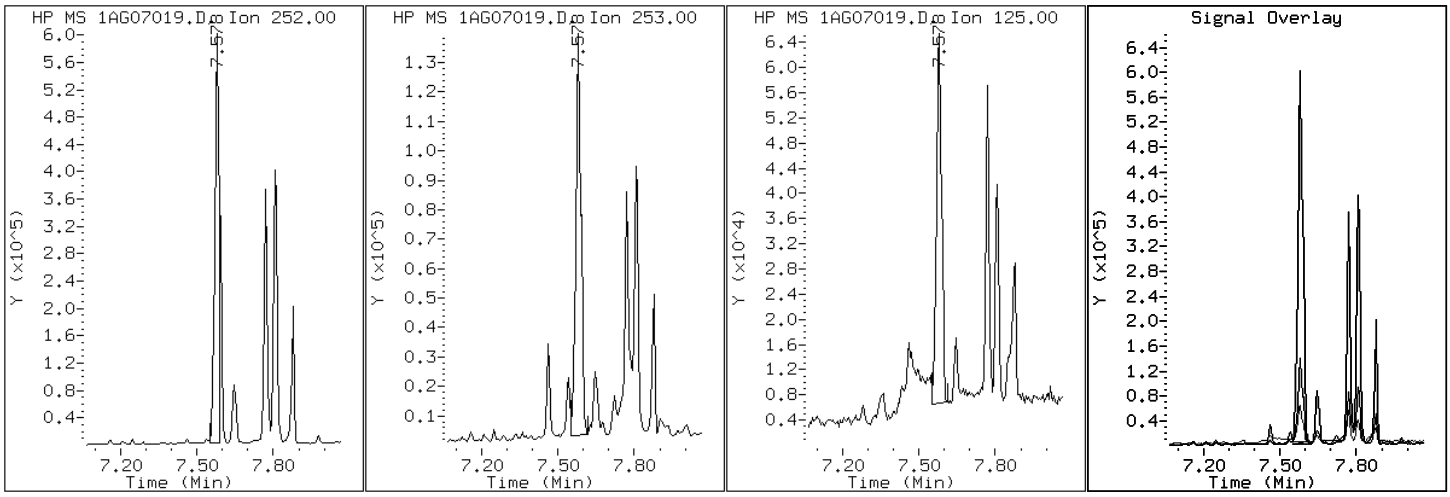
Data File: 1AG07019.D

Date: 07-JUL-2013 18:09

Client ID: CV1363M-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-19-a Operator: SCC

21 Benzo(b)fluoranthene



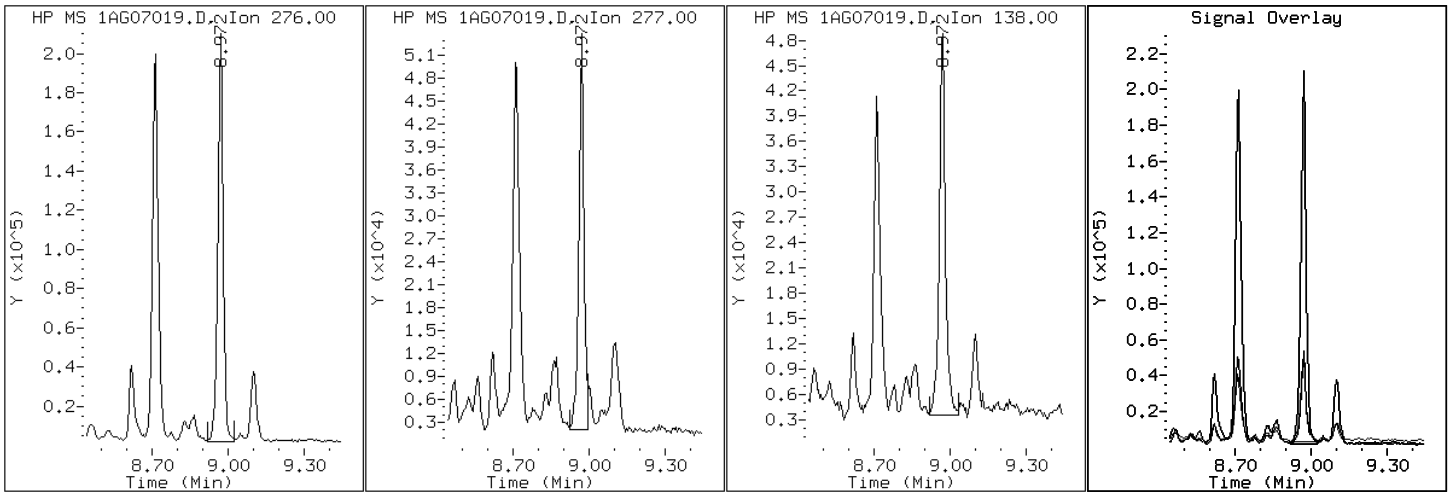
Data File: 1AG07019.D

Date: 07-JUL-2013 18:09

Client ID: CV1363M-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-19-a Operator: SCC

27 Benzo(g,h,i)perylene



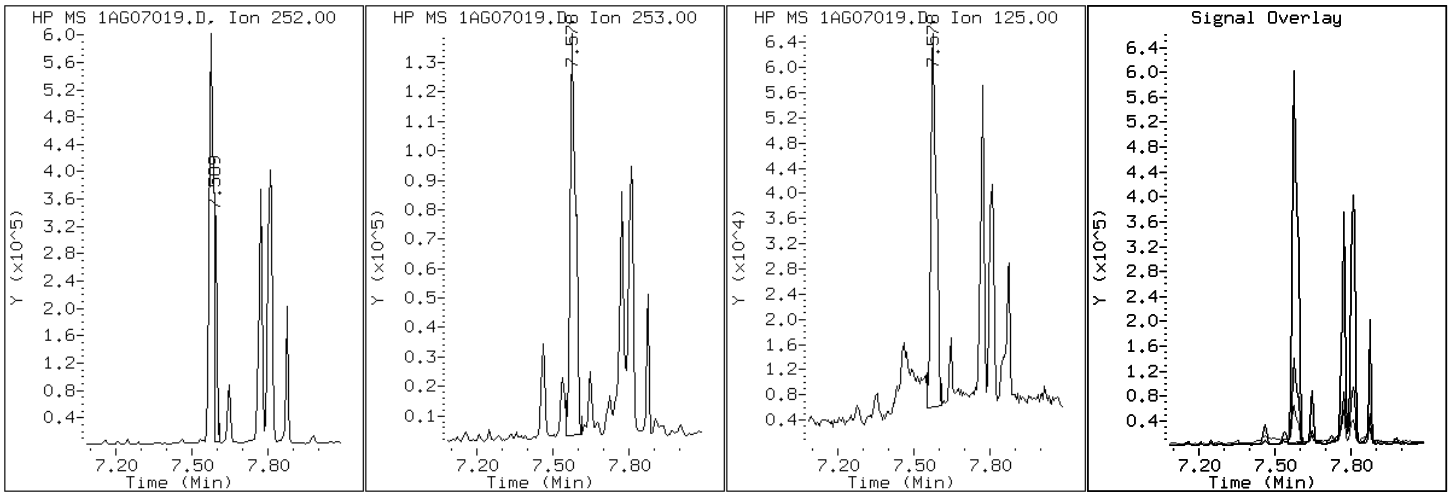
Data File: 1AG07019.D

Date: 07-JUL-2013 18:09

Client ID: CV1363M-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-19-a Operator: SCC

22 Benzo(k)fluoranthene



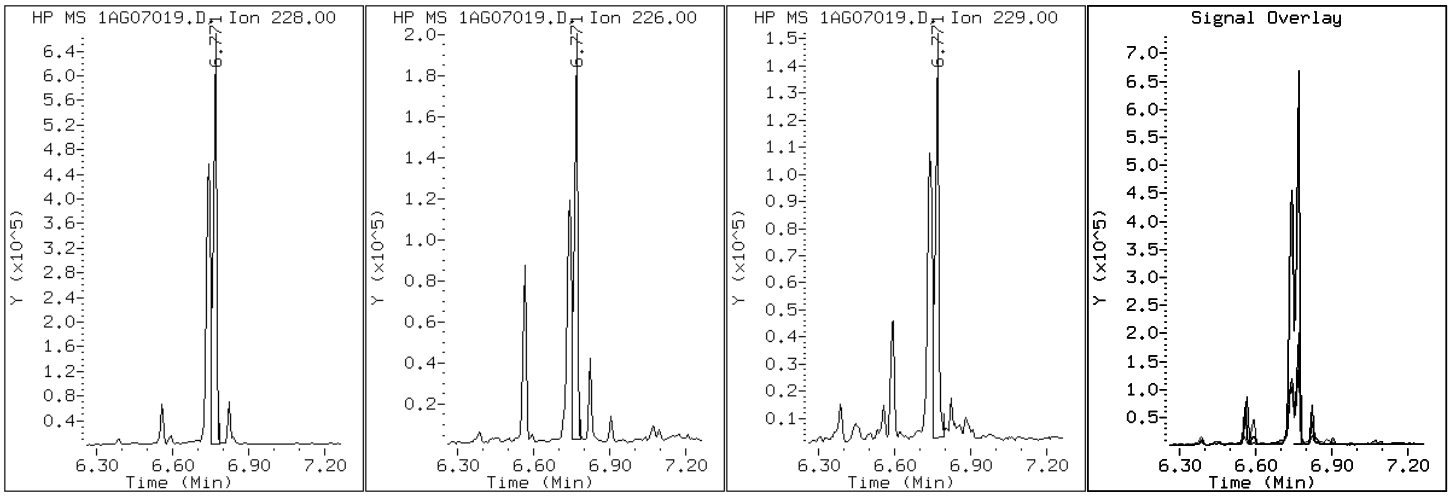
Data File: 1AG07019.D

Date: 07-JUL-2013 18:09

Client ID: CV1363M-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-19-a Operator: SCC

20 Chrysene



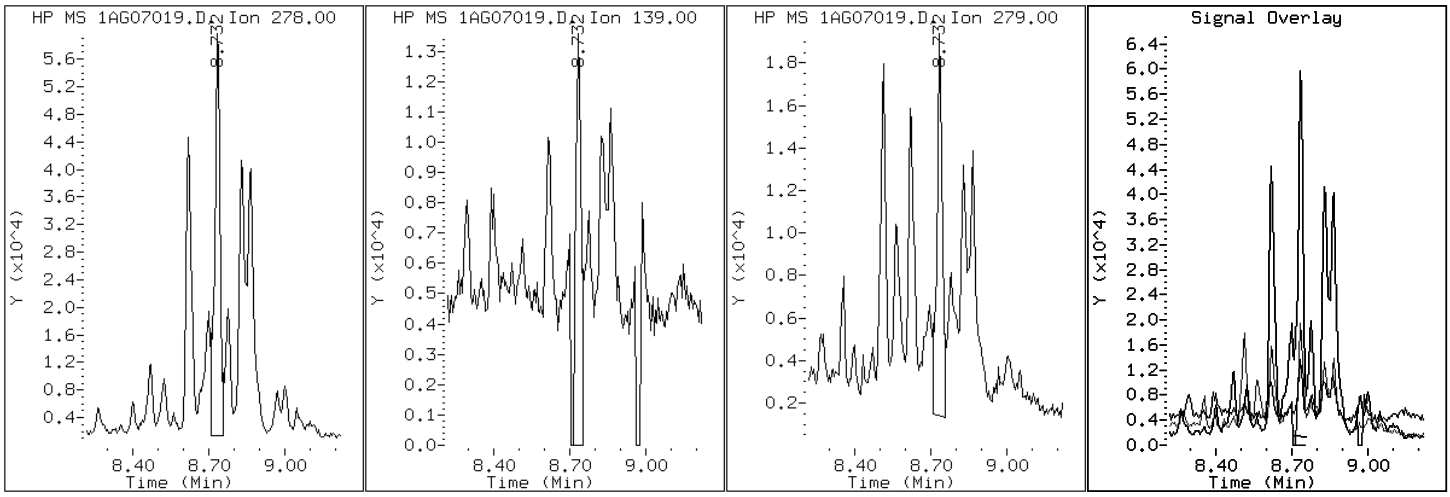
Data File: 1AG07019.D

Date: 07-JUL-2013 18:09

Client ID: CV1363M-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-19-a Operator: SCC

26 Dibenzo(a,h)anthracene



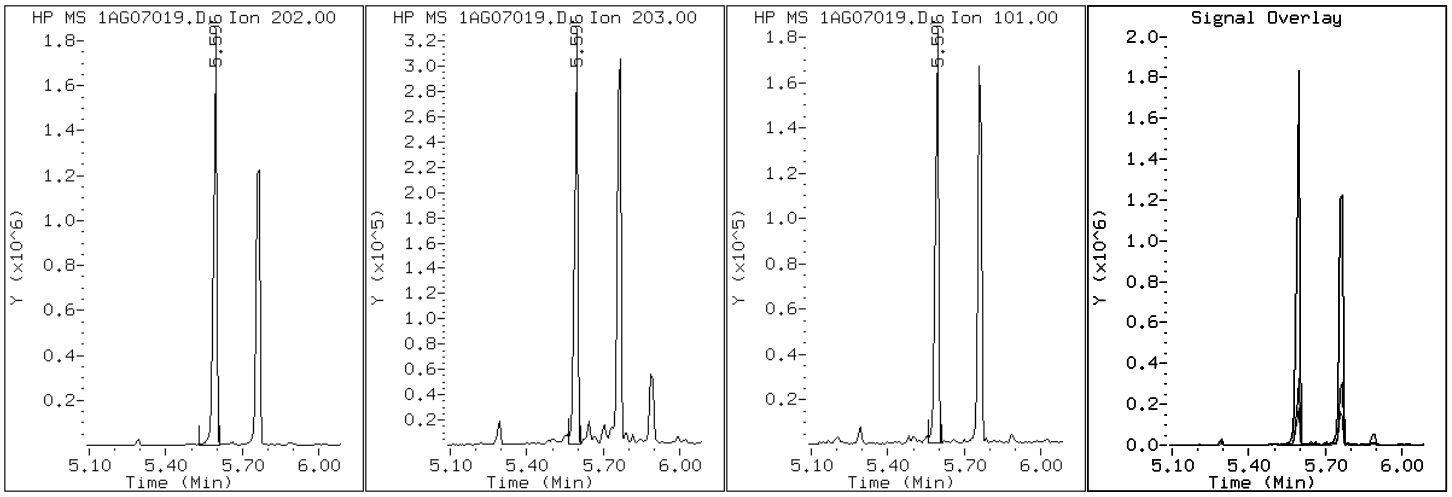
Data File: 1AG07019.D

Date: 07-JUL-2013 18:09

Client ID: CV1363M-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-19-a Operator: SCC

16 Fluoranthene



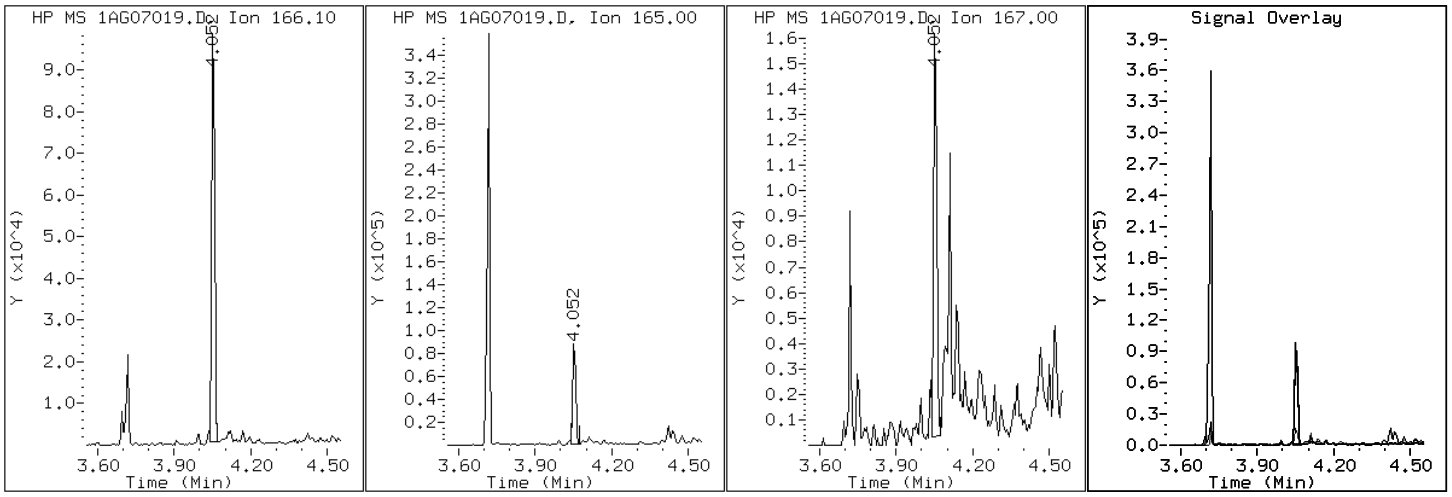
Data File: 1AG07019.D

Date: 07-JUL-2013 18:09

Client ID: CV1363M-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-19-a Operator: SCC

10 Fluorene



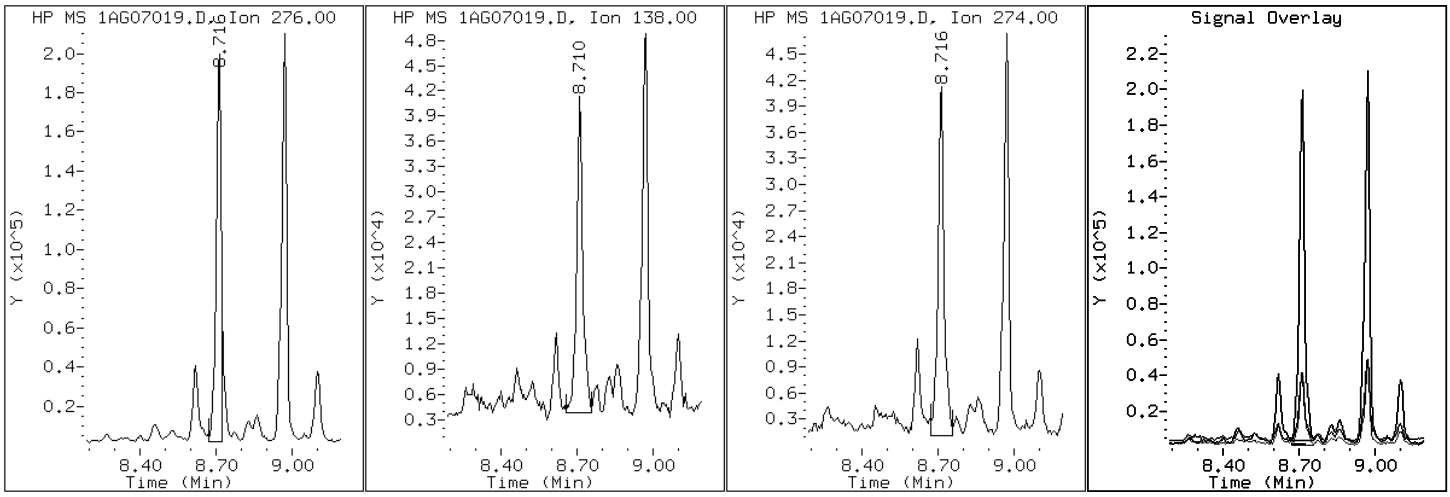
Data File: 1AG07019.D

Date: 07-JUL-2013 18:09

Client ID: CV1363M-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-19-a Operator: SCC

25 Indeno(1,2,3-cd)pyrene



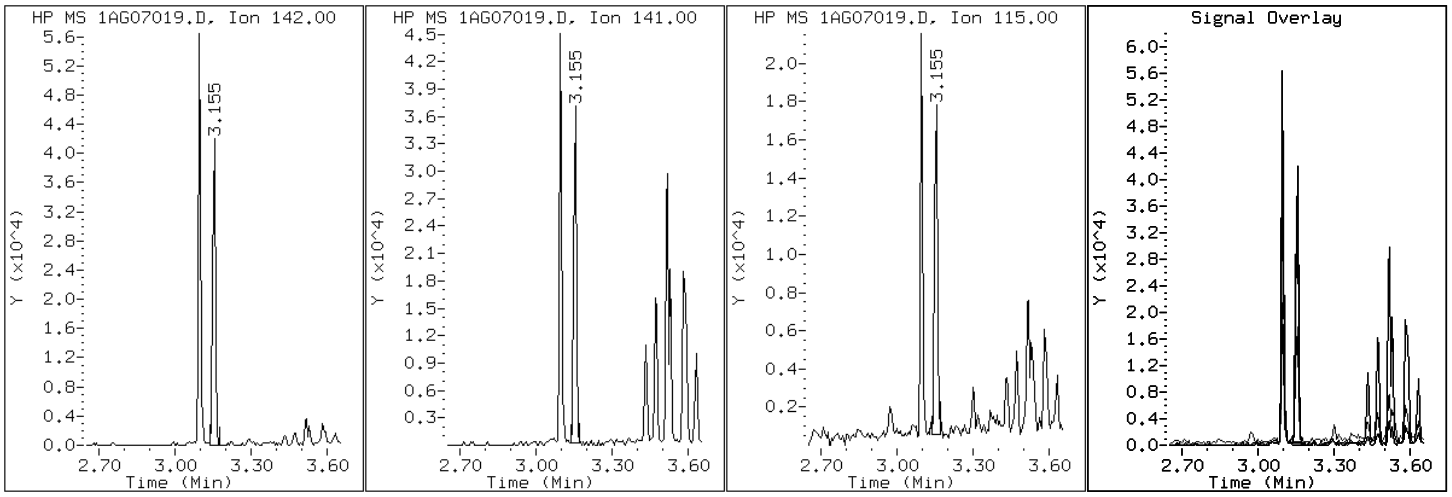
Data File: 1AG07019.D

Date: 07-JUL-2013 18:09

Client ID: CV1363M-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-19-a Operator: SCC

4 1-Methylnaphthalene



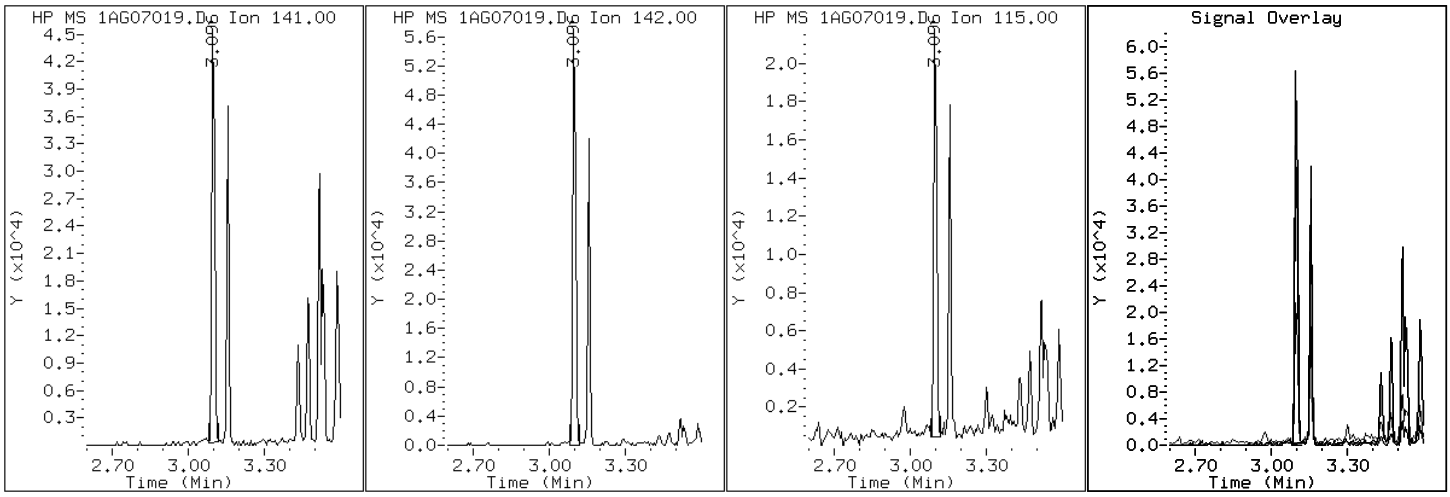
Data File: 1AG07019.D

Date: 07-JUL-2013 18:09

Client ID: CV1363M-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-19-a Operator: SCC

3 2-Methylnaphthalene



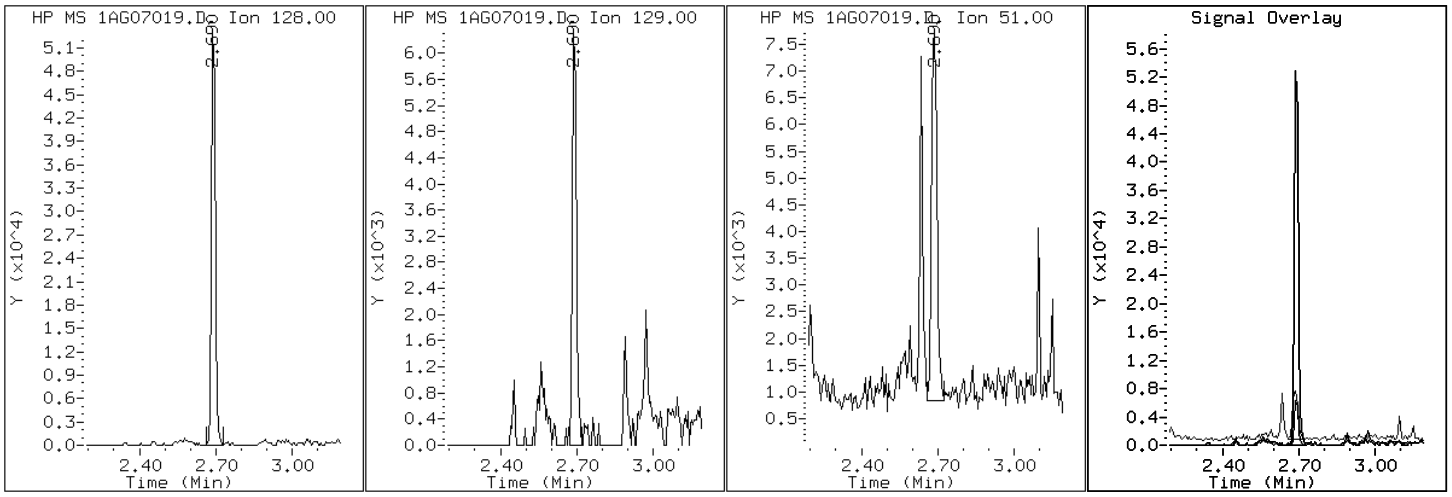
Data File: 1AG07019.D

Date: 07-JUL-2013 18:09

Client ID: CV1363M-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-19-a Operator: SCC

2 Naphthalene



Data File: 1AG07019.D

Date: 07-JUL-2013 18:09

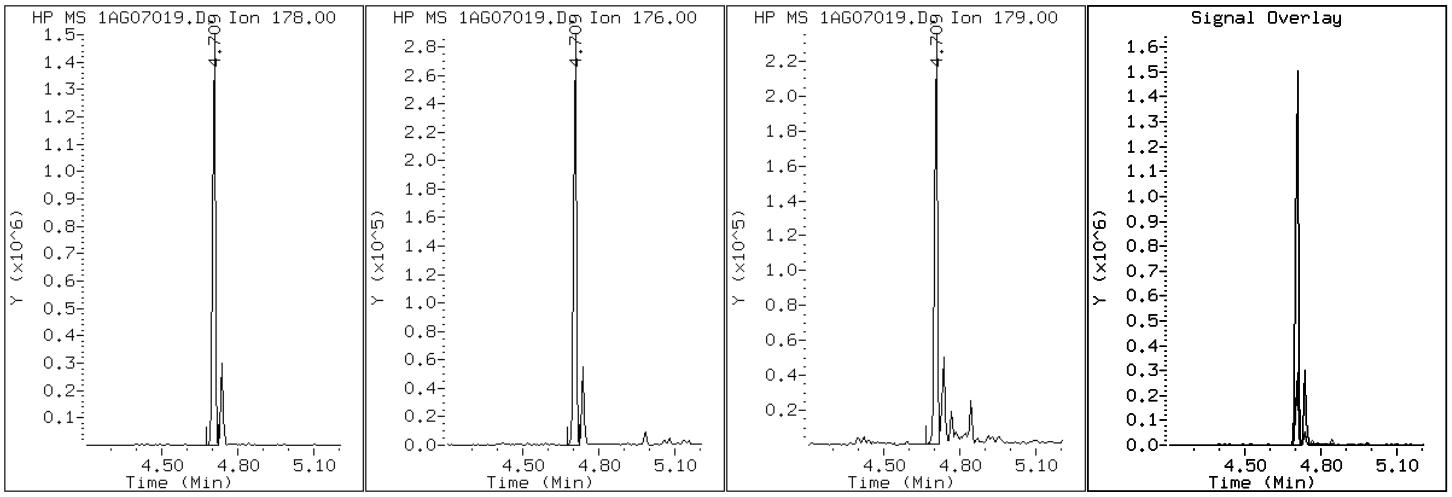
Client ID: CV1363M-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-19-a

Operator: SCC

12 Phenanthrene



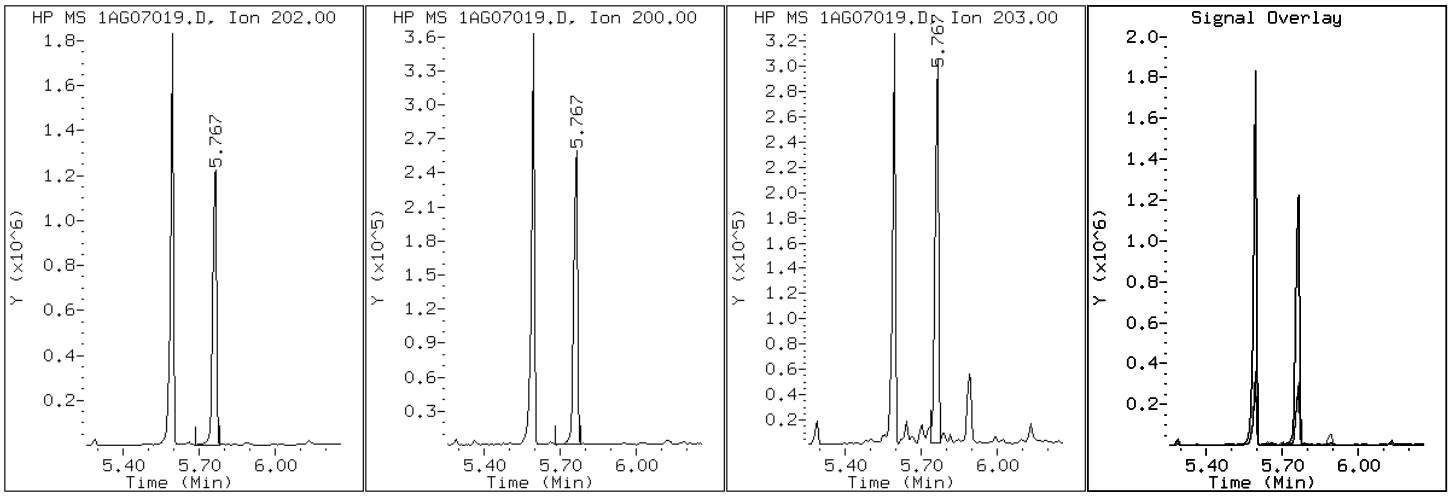
Data File: 1AG07019.D

Date: 07-JUL-2013 18:09

Client ID: CV1363M-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-19-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG07019.D
Inj. Date and Time: 07-JUL-2013 18:09
Instrument ID: BSMA5973.i
Client ID: CV1363M-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/08/2013

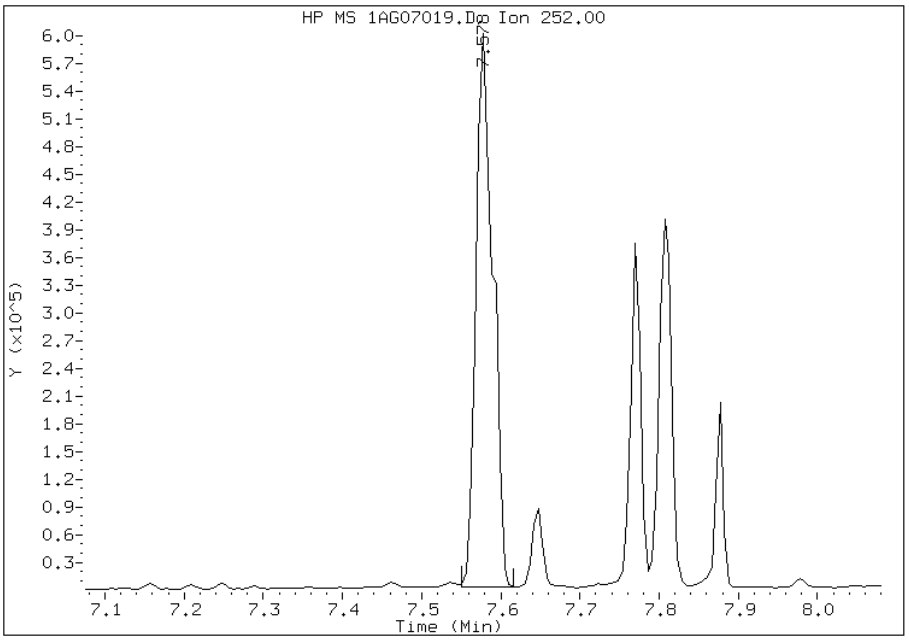
Processing Integration Results

RT: 7.58

Response: 872214

Amount: 10

Conc: 813



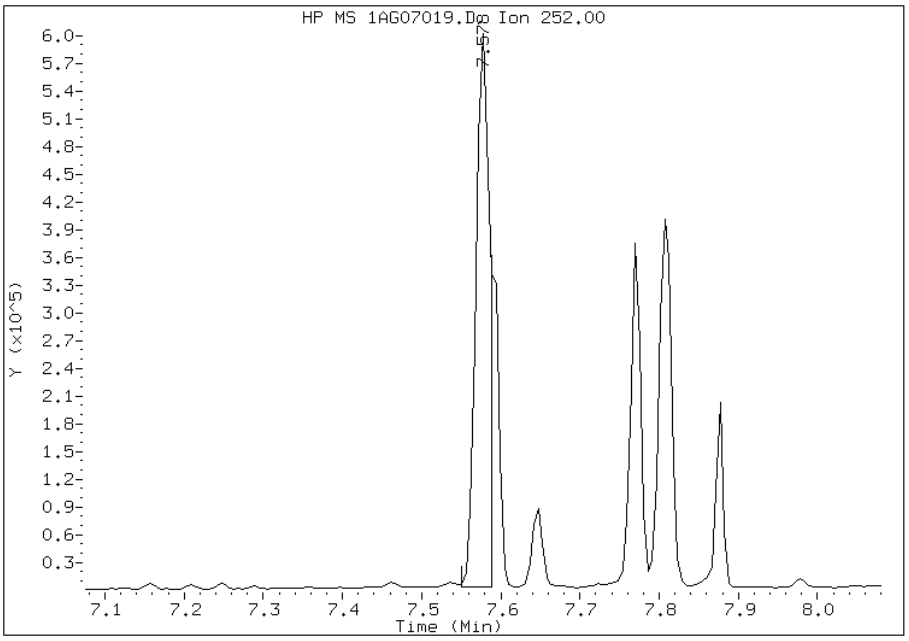
Manual Integration Results

RT: 7.58

Response: 715590

Amount: 9

Conc: 667



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:04
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG07019.D
Inj. Date and Time: 07-JUL-2013 18:09
Instrument ID: BSMA5973.i
Client ID: CV1363M-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/08/2013

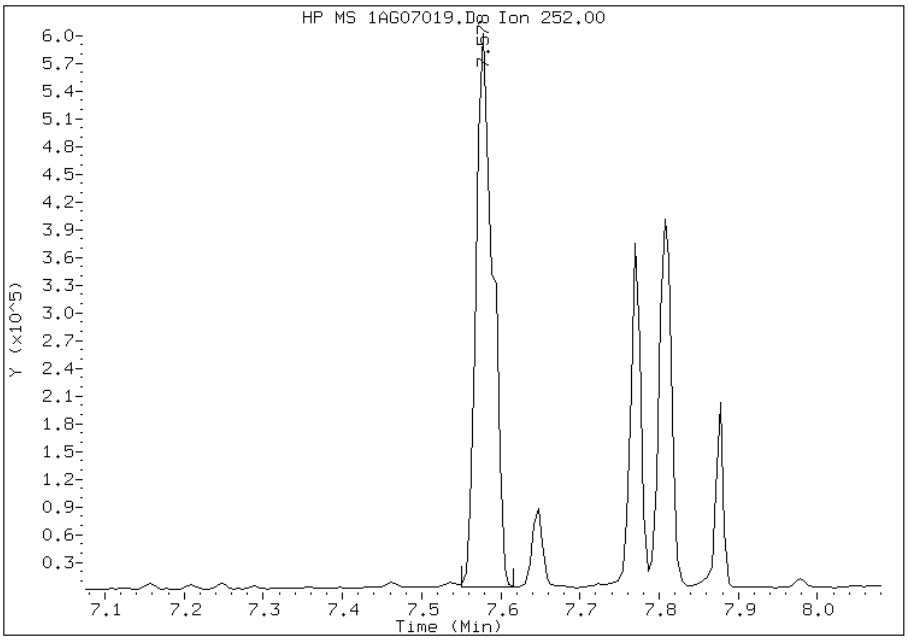
Processing Integration Results

RT: 7.58

Response: 871679

Amount: 10

Conc: 787



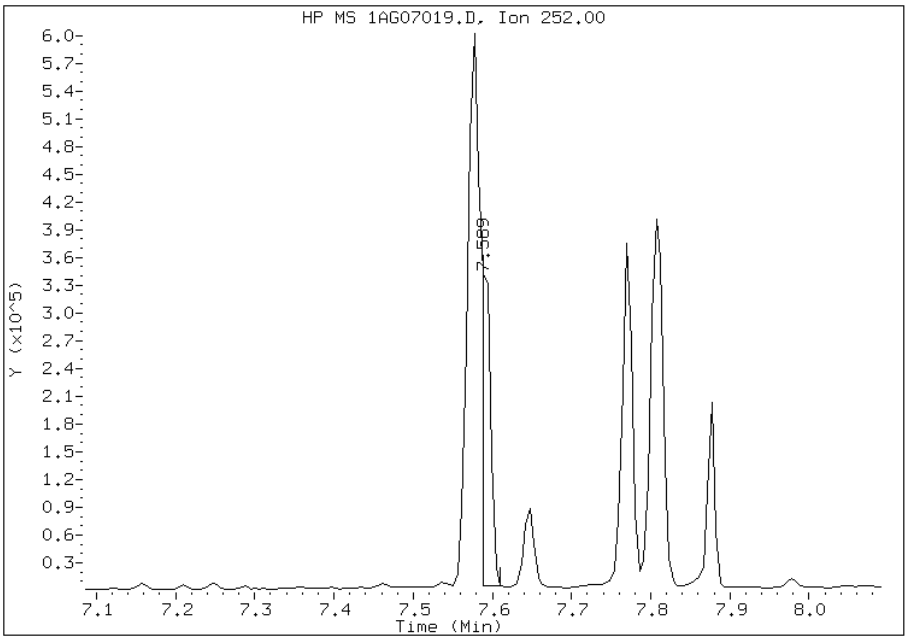
Manual Integration Results

RT: 7.59

Response: 262001

Amount: 3

Conc: 237



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:04
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG07019.D
Inj. Date and Time: 07-JUL-2013 18:09
Instrument ID: BSMA5973.i
Client ID: CV1363M-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

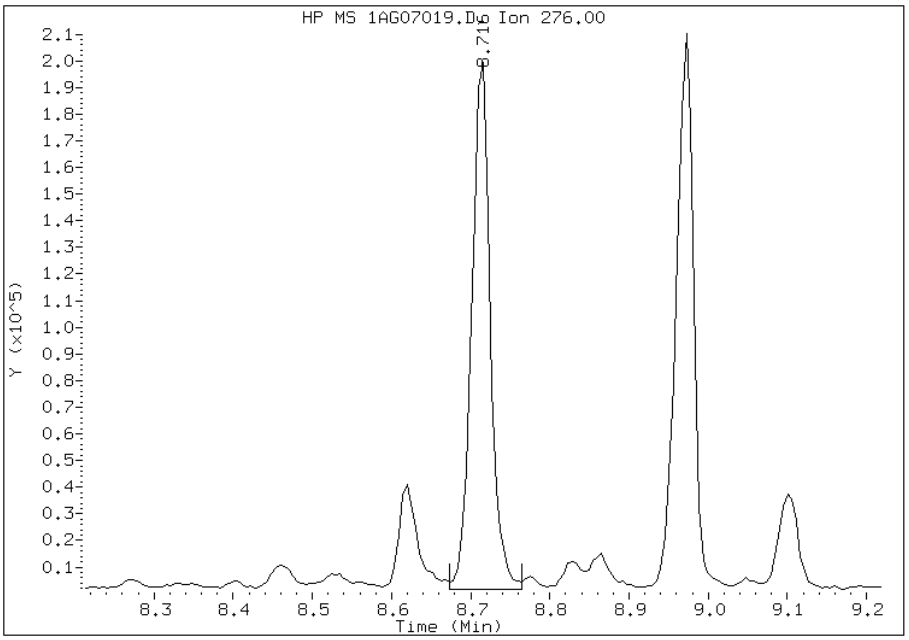
Processing Integration Results

RT: 8.72

Response: 319381

Amount: 5

Conc: 369



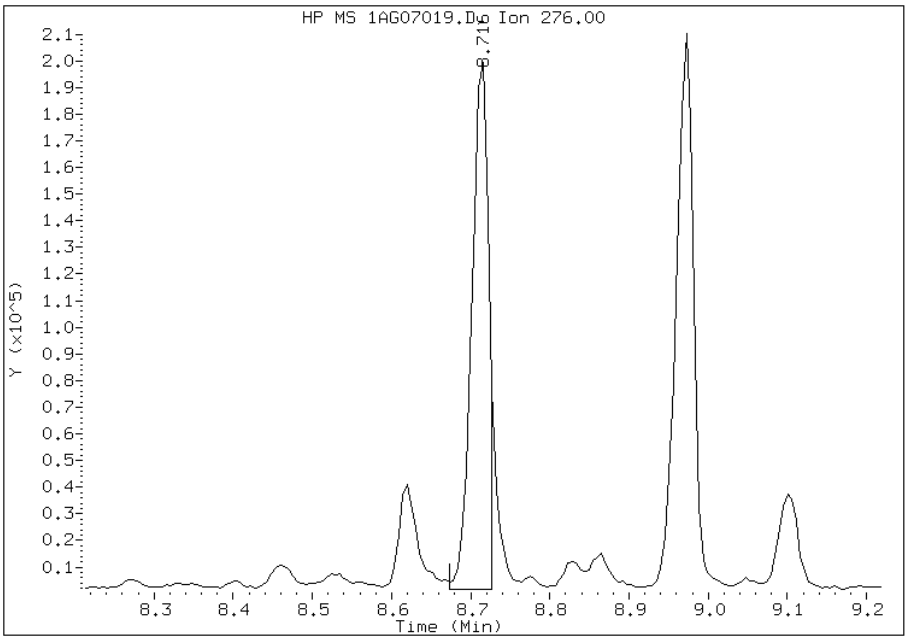
Manual Integration Results

RT: 8.72

Response: 290958

Amount: 4

Conc: 336



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:04
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363N-CS | Lab Sample ID: 680-91719-20

Matrix: Solid | Lab File ID: 1AG07020.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 09:35

Extract. Method: 3546 | Date Extracted: 07/03/2013 11:12

Sample wt/vol: 14.97(g) | Date Analyzed: 07/07/2013 18:24

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 9.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139145 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	22	J	110	22
208-96-8	Acenaphthylene	54		44	5.5
120-12-7	Anthracene	120		9.3	4.6
56-55-3	Benzo[a]anthracene	300		8.8	4.3
50-32-8	Benzo[a]pyrene	260		12	5.8
205-99-2	Benzo[b]fluoranthene	400		13	6.7
191-24-2	Benzo[g,h,i]perylene	300		22	4.9
207-08-9	Benzo[k]fluoranthene	160		8.8	4.0
218-01-9	Chrysene	360		10	5.0
53-70-3	Dibenz(a,h)anthracene	82		22	4.5
206-44-0	Fluoranthene	580		22	4.4
86-73-7	Fluorene	28		22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	260		22	7.9
90-12-0	1-Methylnaphthalene	81		44	4.9
91-57-6	2-Methylnaphthalene	120		44	7.9
91-20-3	Naphthalene	100		44	4.9
85-01-8	Phenanthrene	410		8.8	4.3
129-00-0	Pyrene	450		22	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	59		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07020.D
Lab Smp Id: 680-91719-A-20-A Client Smp ID: CV1363N-CS
Inj Date : 07-JUL-2013 18:24
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-a-20-a
Misc Info : 680-91719-A-20-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:45 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	9.409	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.681	2.683	(1.000)	2695863	40.0000	
* 7 Acenaphthene-d10	164	3.718	3.714	(1.000)	1606446	40.0000	
* 11 Phenanthrene-d10	188	4.695	4.692	(1.000)	2261751	40.0000	
$ 15 o-Terphenyl	230	4.984	4.986	(1.061)	201539	5.86399	432.4016
* 19 Chrysene-d12	240	6.757	6.748	(1.000)	2371945	40.0000	
* 24 Perylene-d12	264	7.863	7.849	(1.000)	3202737	40.0000	
2 Naphthalene	128	2.692	2.694	(1.004)	85243	1.39950	103.1967
3 2-Methylnaphthalene	141	3.098	3.100	(1.155)	54521	1.56892	115.6896
4 1-Methylnaphthalene	142	3.157	3.153	(1.177)	44369	1.09343	80.6281
6 Acenaphthylene	152	3.627	3.629	(0.976)	52431	0.73166	53.9512
8 Acenaphthene	154	3.734	3.735	(1.004)	11389	0.30328	22.3636
10 Fluorene	166	4.054	4.056	(1.091)	19096	0.38006	28.0252
12 Phenanthrene	178	4.706	4.708	(1.002)	321445	5.58419	411.7698
13 Anthracene	178	4.738	4.740	(1.009)	98144	1.63503	120.5646

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Fluoranthene	202	5.593	5.589	(1.191)	545270	7.87202	580.4706
17 Pyrene	202	5.764	5.760	(0.853)	476591	6.03555	445.0518
18 Benzo(a)anthracene	228	6.747	6.732	(0.998)	316010	4.09326	301.8303
20 Chrysene	228	6.768	6.764	(1.002)	318032	4.94951	364.9694
21 Benzo(b)fluoranthene	252	7.575	7.566	(0.963)	490819	5.38350	396.9713(M)
22 Benzo(k)fluoranthene	252	7.586	7.587	(0.965)	203056	2.15705	159.0572(QM)
23 Benzo(a)pyrene	252	7.805	7.795	(0.993)	302650	3.58957	264.6894
25 Indeno(1,2,3-cd)pyrene	276	8.713	8.693	(1.108)	254884	3.46702	255.6525(M)
26 Dibenzo(a,h)anthracene	278	8.734	8.720	(1.111)	76886	1.10612	81.5633
27 Benzo(g,h,i)perylene	276	8.969	8.944	(1.141)	279296	4.00700	295.4700

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AG07020.D

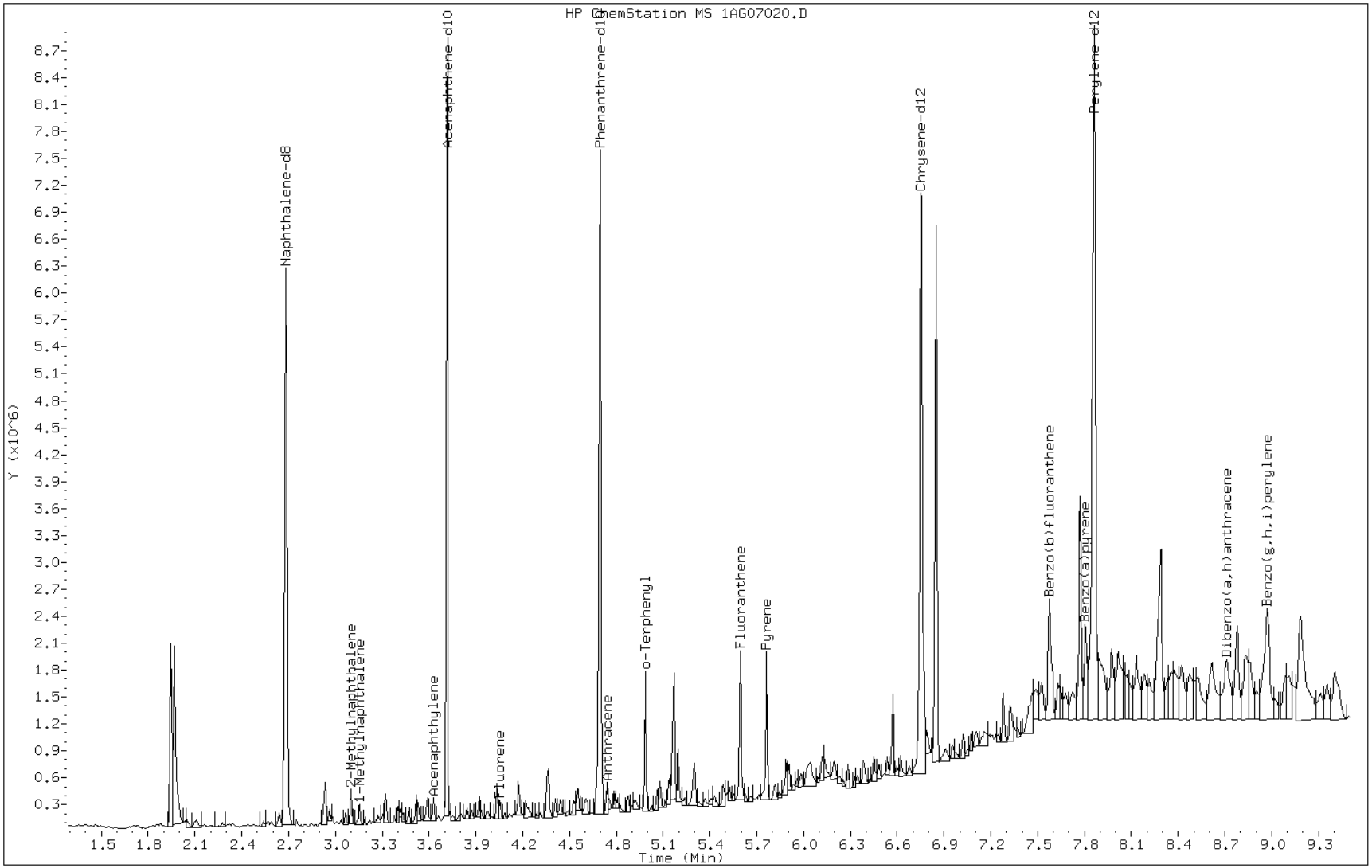
Date: 07-JUL-2013 18:24

Client ID: CV1363N-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-20-a

Operator: SCC



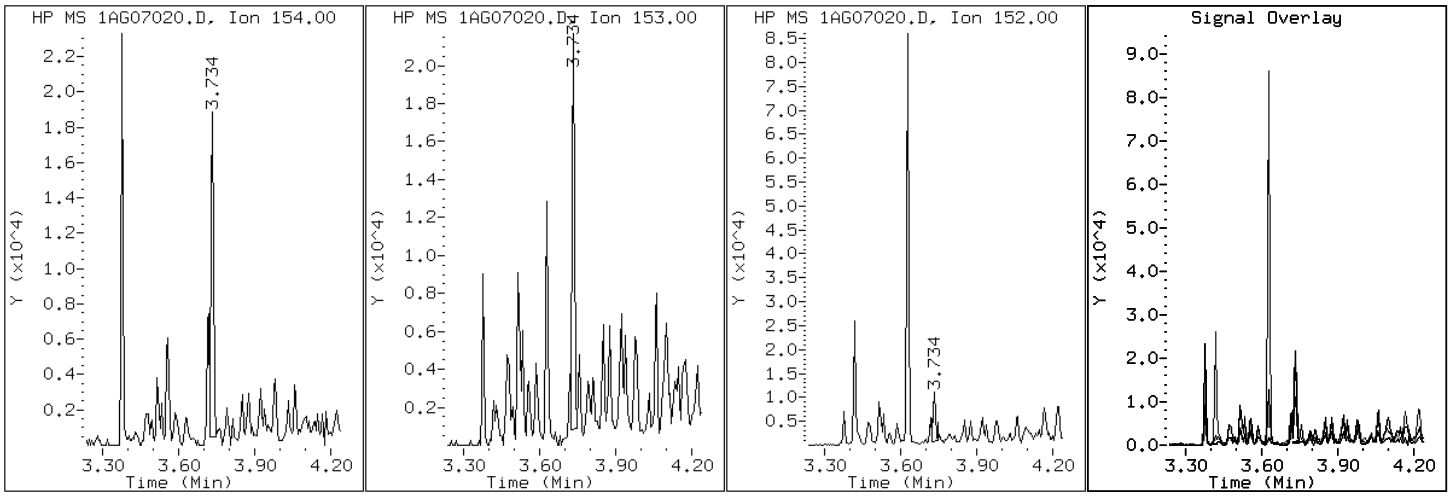
Data File: 1AG07020.D

Date: 07-JUL-2013 18:24

Client ID: CV1363N-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-20-a Operator: SCC

8 Acenaphthene



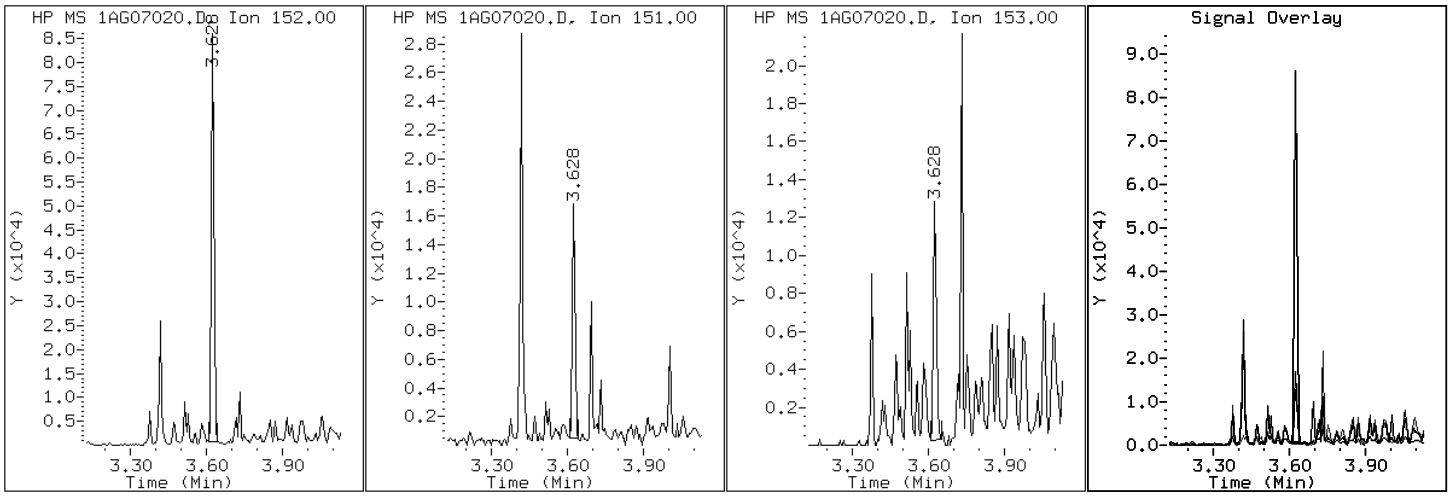
Data File: 1AG07020.D

Date: 07-JUL-2013 18:24

Client ID: CV1363N-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-20-a Operator: SCC

6 Acenaphthylene



Data File: 1AG07020.D

Date: 07-JUL-2013 18:24

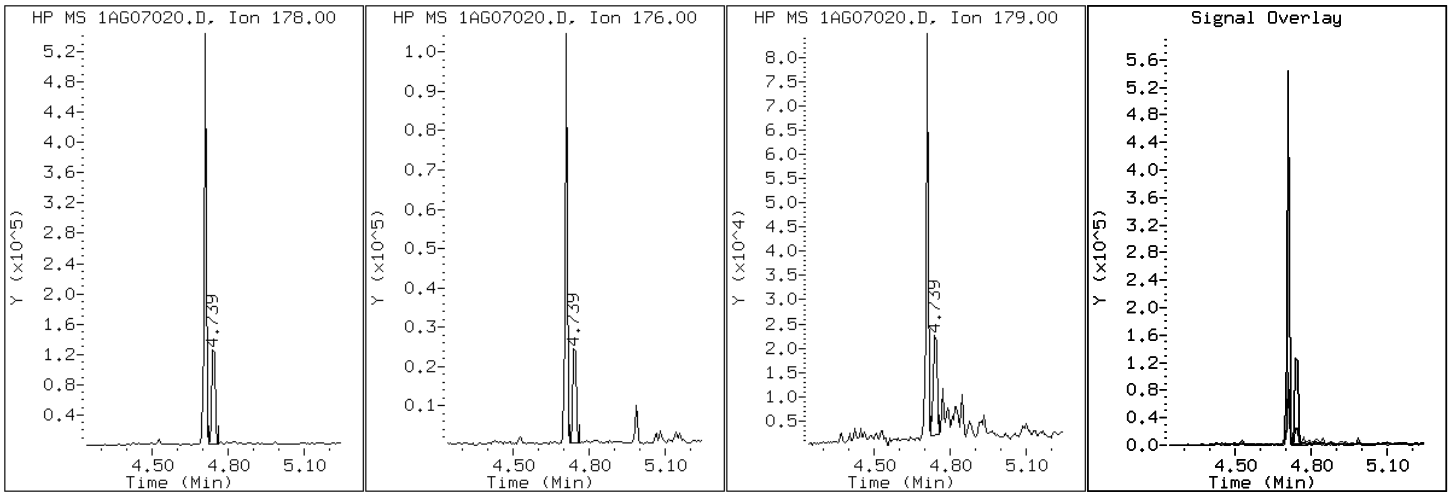
Client ID: CV1363N-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-20-a

Operator: SCC

13 Anthracene



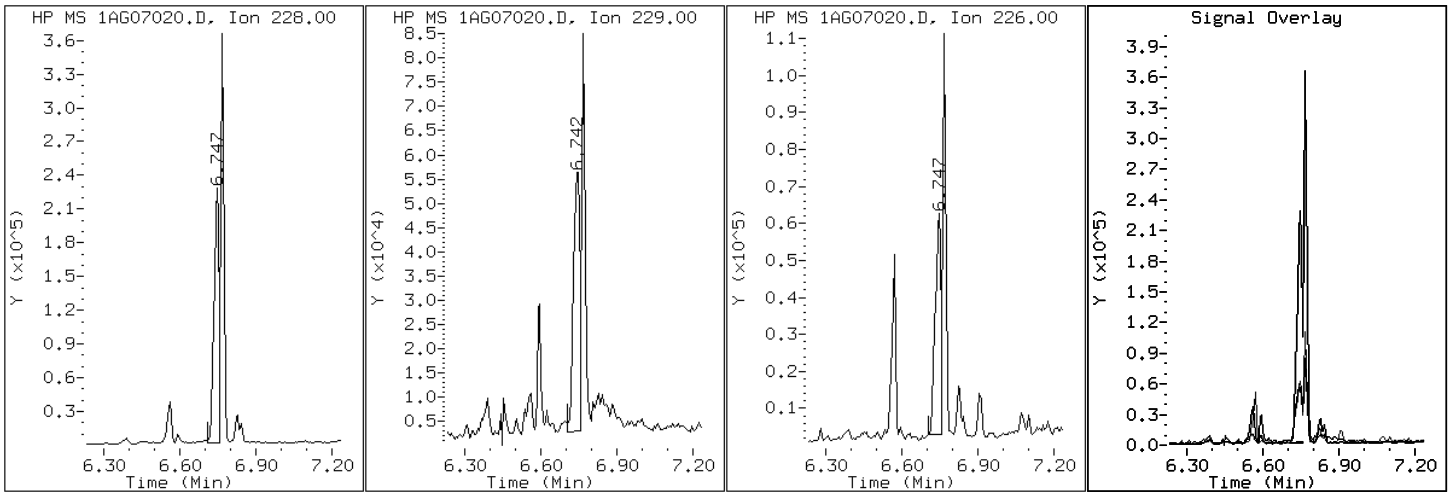
Data File: 1AG07020.D

Date: 07-JUL-2013 18:24

Client ID: CV1363N-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-20-a Operator: SCC

18 Benzo(a)anthracene



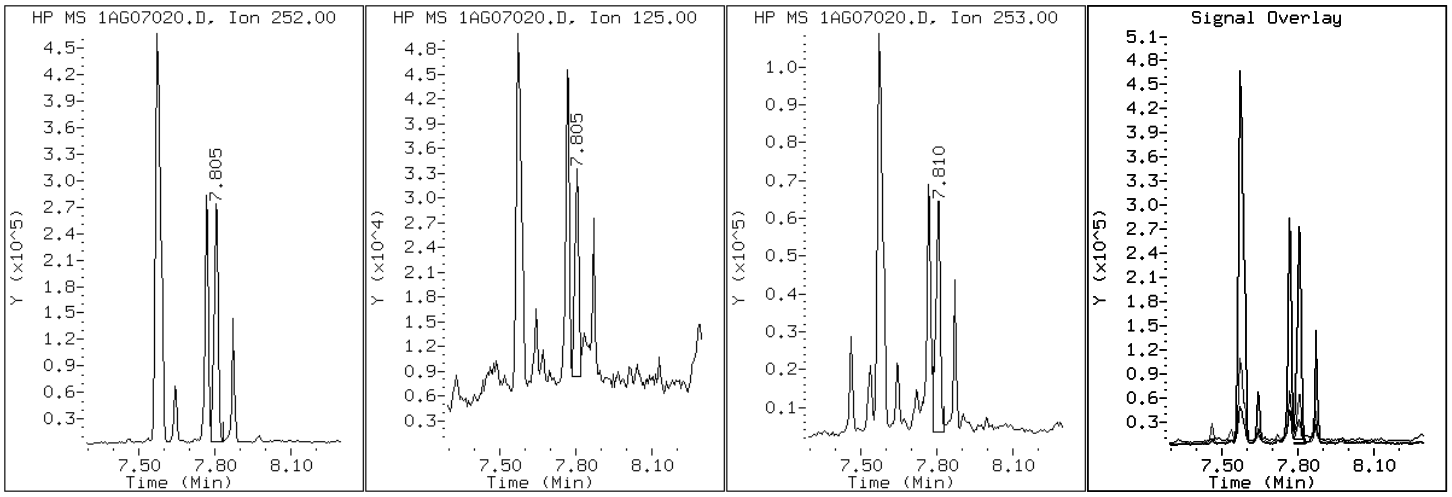
Data File: 1AG07020.D

Date: 07-JUL-2013 18:24

Client ID: CV1363N-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-20-a Operator: SCC

23 Benzo(a)pyrene



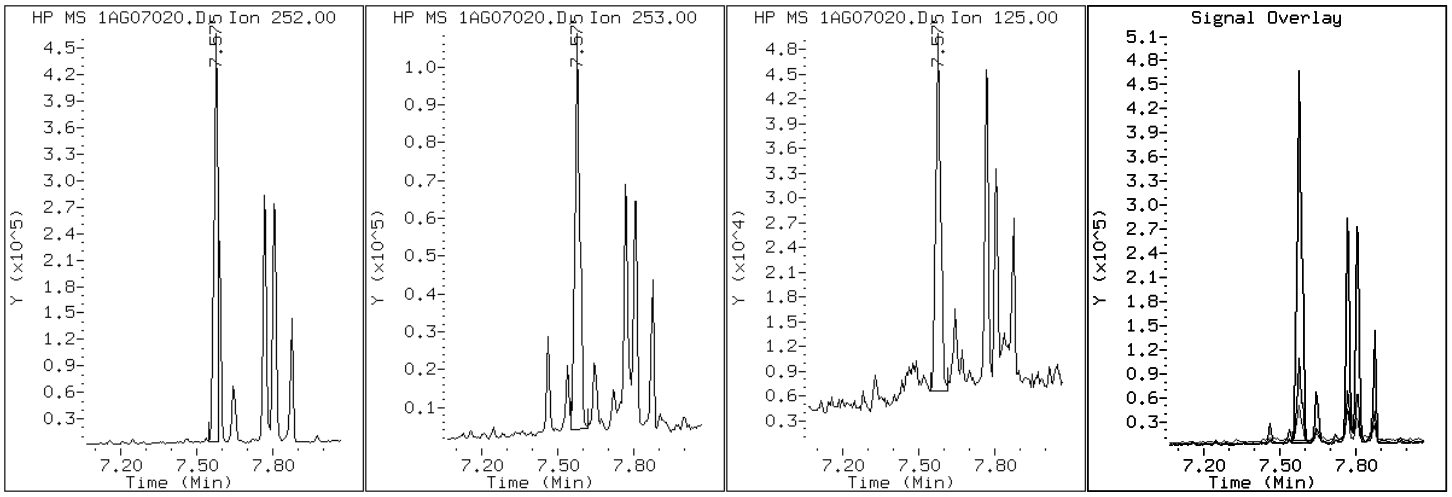
Data File: 1AG07020.D

Date: 07-JUL-2013 18:24

Client ID: CV1363N-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-20-a Operator: SCC

21 Benzo(b)fluoranthene



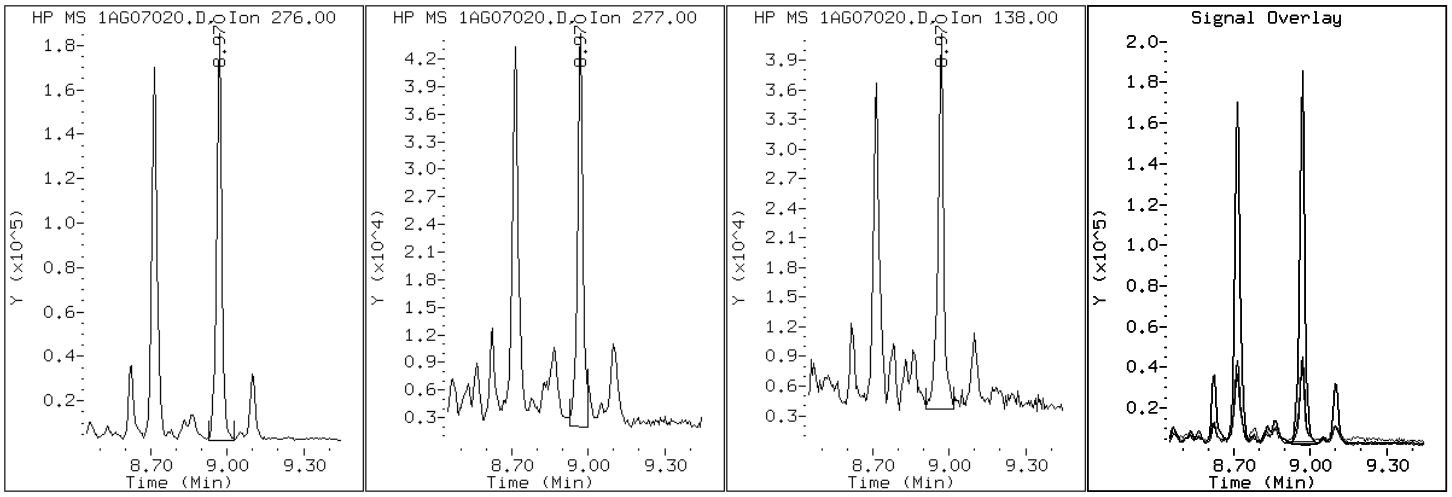
Data File: 1AG07020.D

Date: 07-JUL-2013 18:24

Client ID: CV1363N-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-20-a Operator: SCC

27 Benzo(g,h,i)perylene



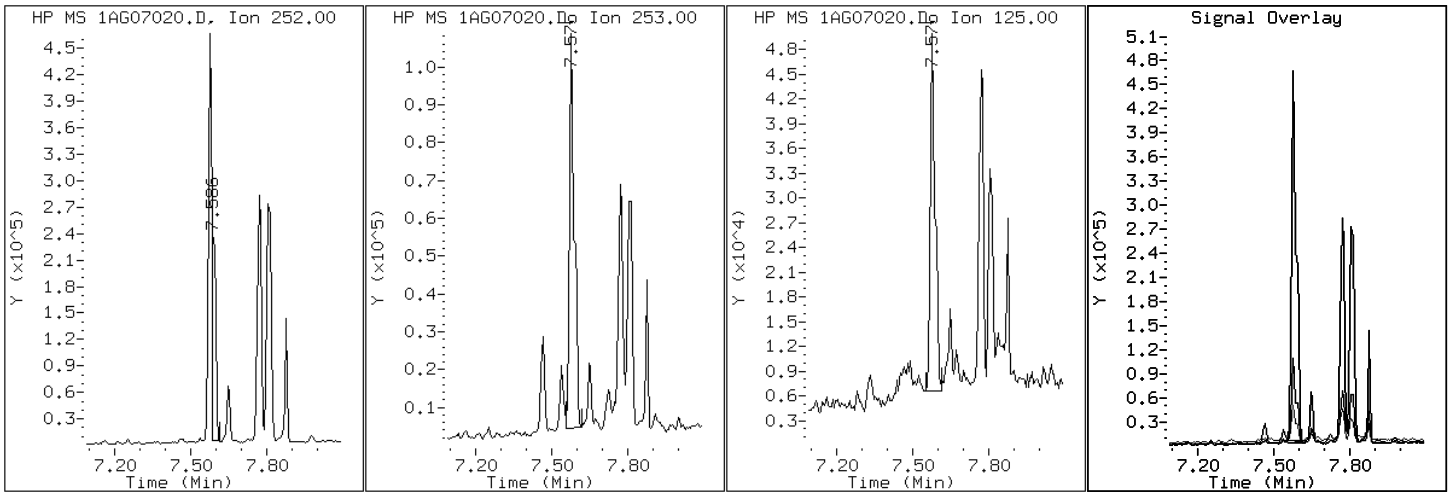
Data File: 1AG07020.D

Date: 07-JUL-2013 18:24

Client ID: CV1363N-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-20-a Operator: SCC

22 Benzo(k)fluoranthene



Data File: 1AG07020.D

Date: 07-JUL-2013 18:24

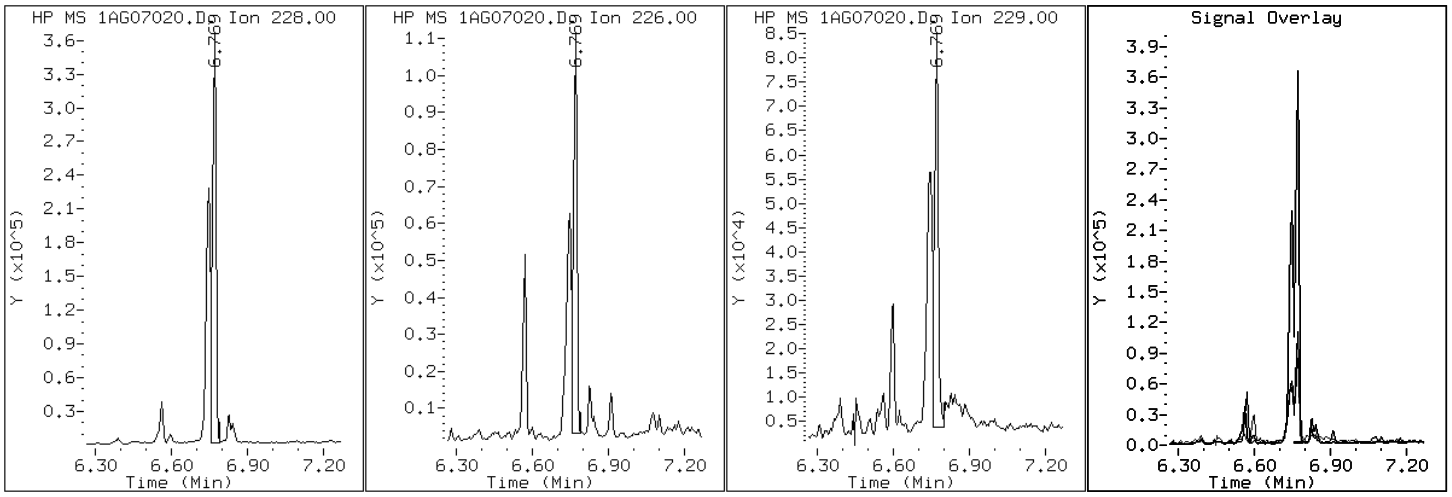
Client ID: CV1363N-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-20-a

Operator: SCC

20 Chrysene



Data File: 1AG07020.D

Date: 07-JUL-2013 18:24

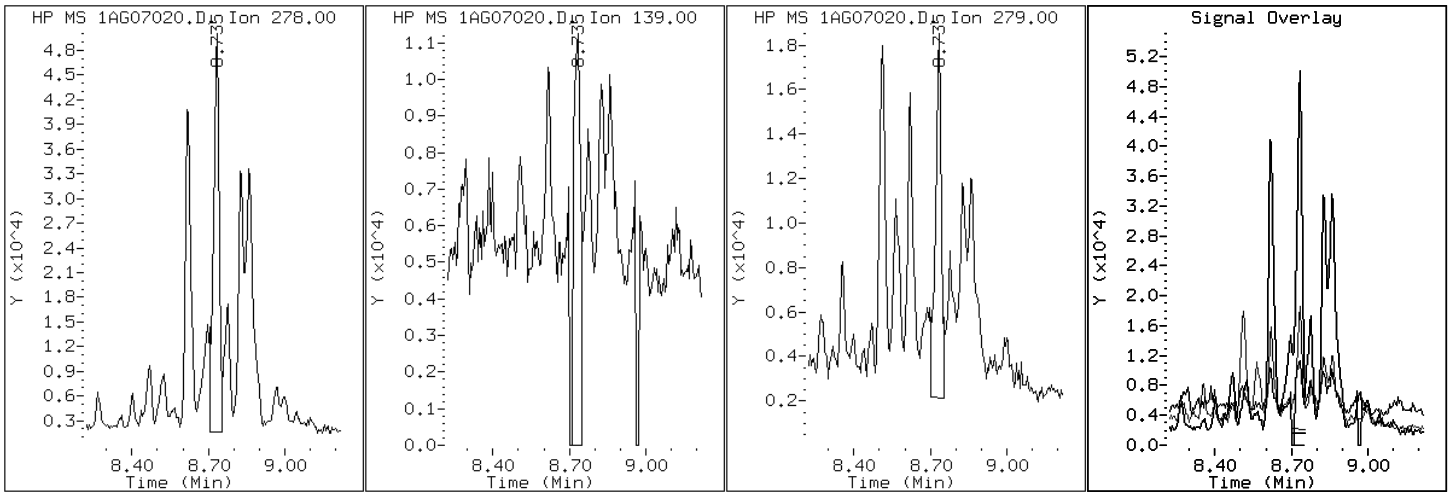
Client ID: CV1363N-CS

Instrument: BSMA5973.i

Sample Info: 680-91719-a-20-a

Operator: SCC

26 Dibenzo(a,h)anthracene



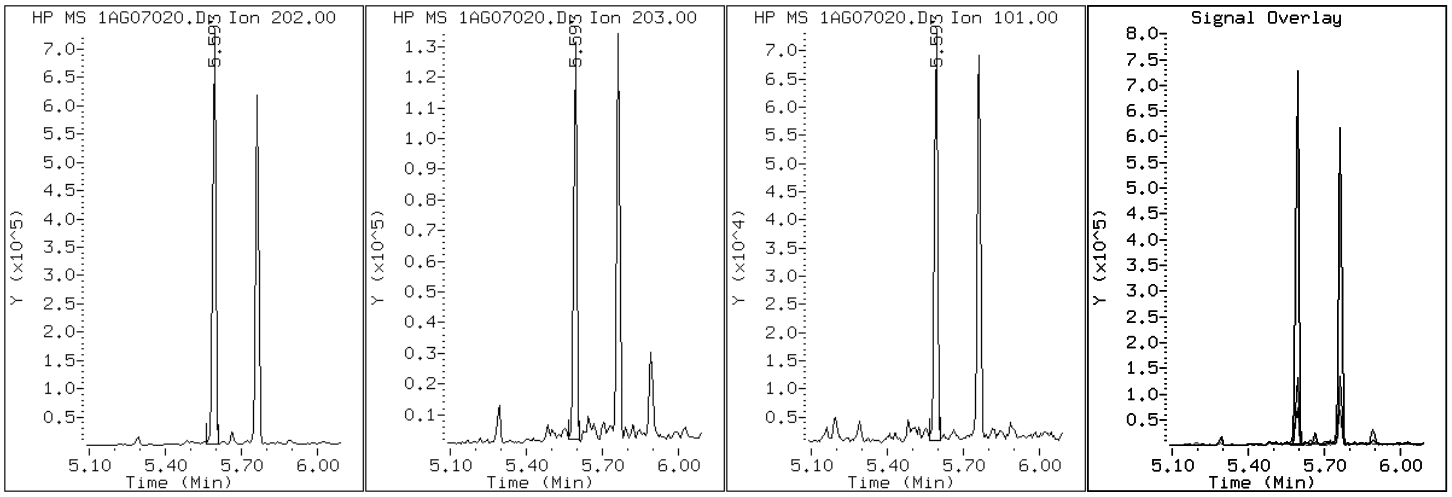
Data File: 1AG07020.D

Date: 07-JUL-2013 18:24

Client ID: CV1363N-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-20-a Operator: SCC

16 Fluoranthene



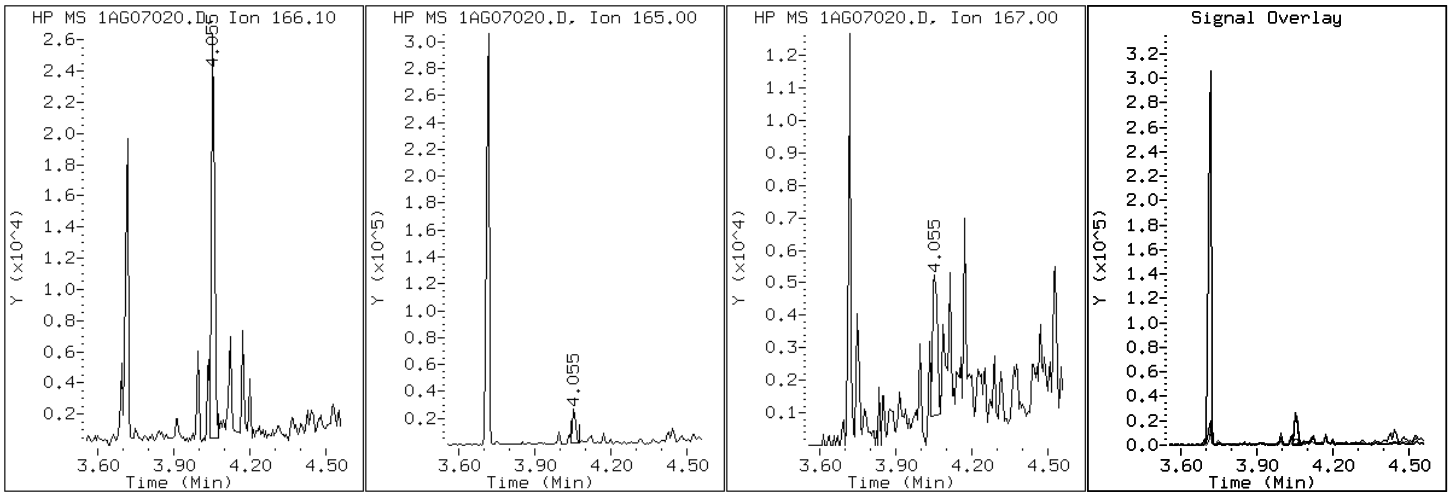
Data File: 1AG07020.D

Date: 07-JUL-2013 18:24

Client ID: CV1363N-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-20-a Operator: SCC

10 Fluorene



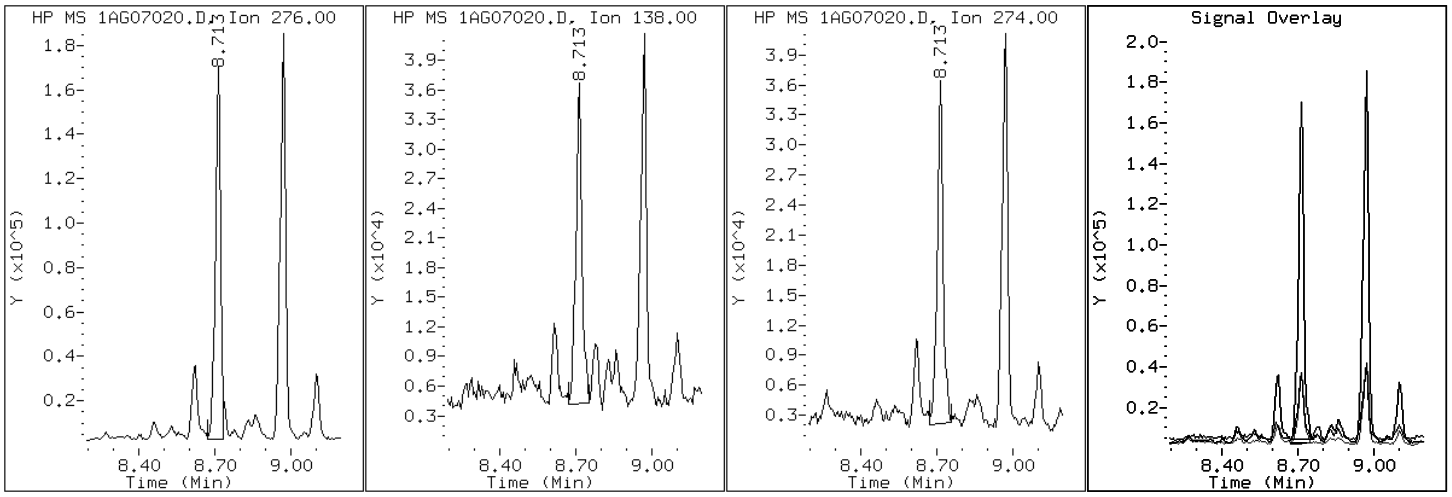
Data File: 1AG07020.D

Date: 07-JUL-2013 18:24

Client ID: CV1363N-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-20-a Operator: SCC

25 Indeno(1,2,3-cd)pyrene



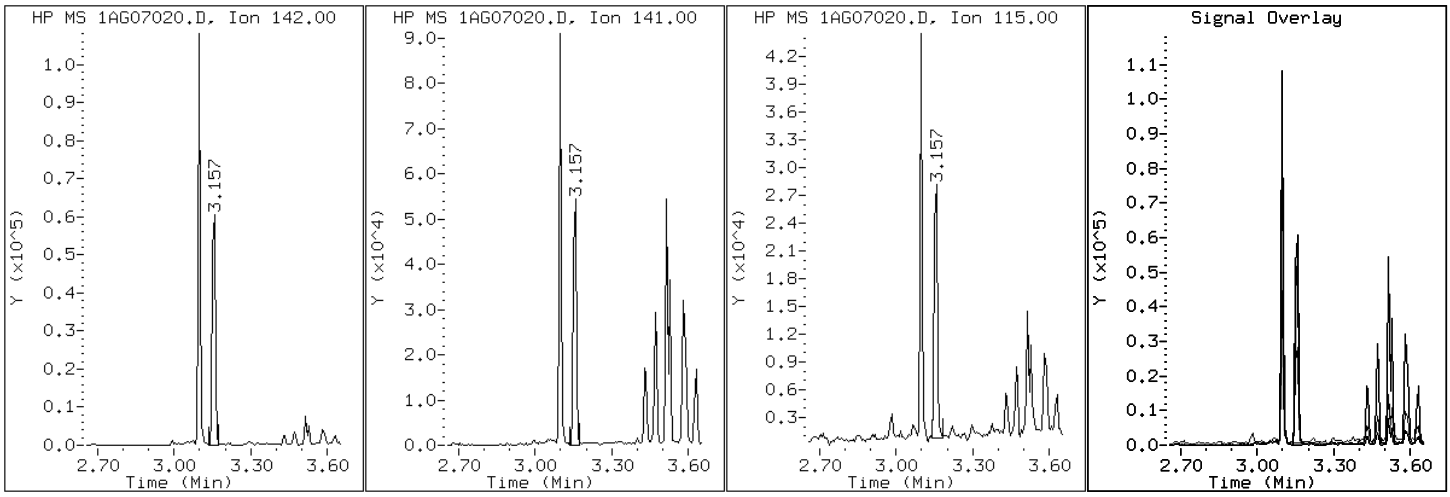
Data File: 1AG07020.D

Date: 07-JUL-2013 18:24

Client ID: CV1363N-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-20-a Operator: SCC

4 1-Methylnaphthalene



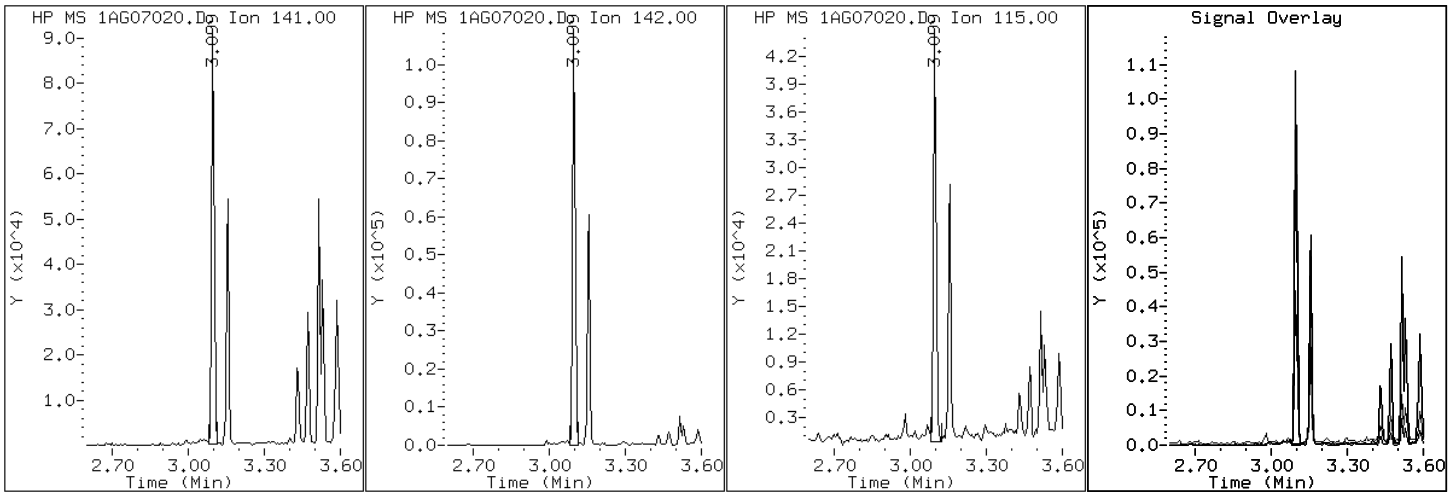
Data File: 1AG07020.D

Date: 07-JUL-2013 18:24

Client ID: CV1363N-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-20-a Operator: SCC

3 2-Methylnaphthalene



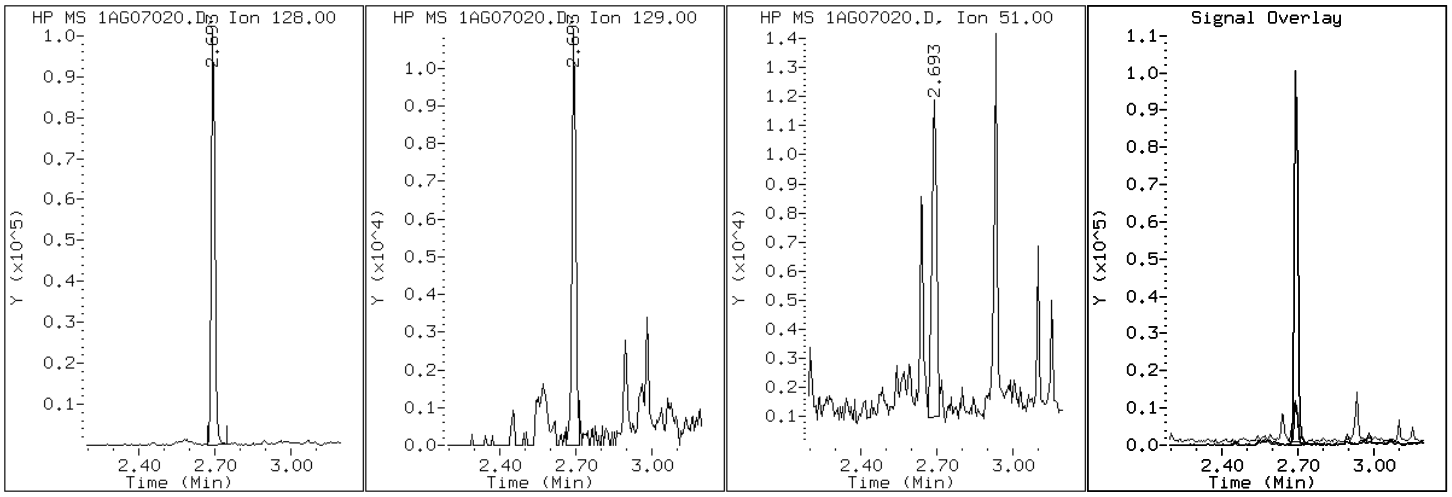
Data File: 1AG07020.D

Date: 07-JUL-2013 18:24

Client ID: CV1363N-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-20-a Operator: SCC

2 Naphthalene



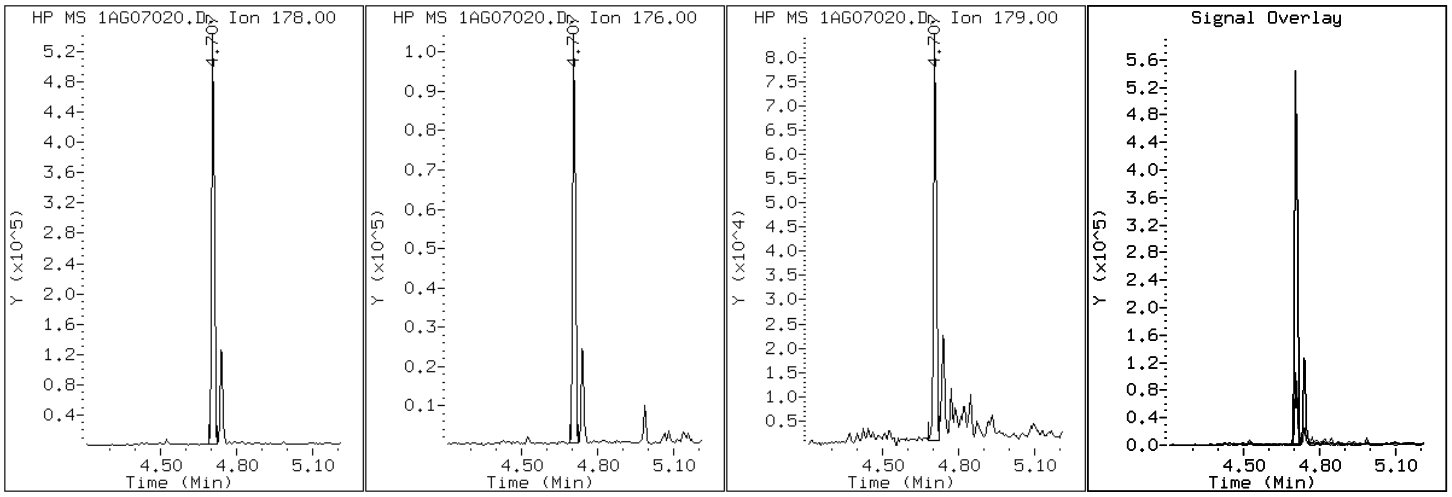
Data File: 1AG07020.D

Date: 07-JUL-2013 18:24

Client ID: CV1363N-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-20-a Operator: SCC

12 Phenanthrene



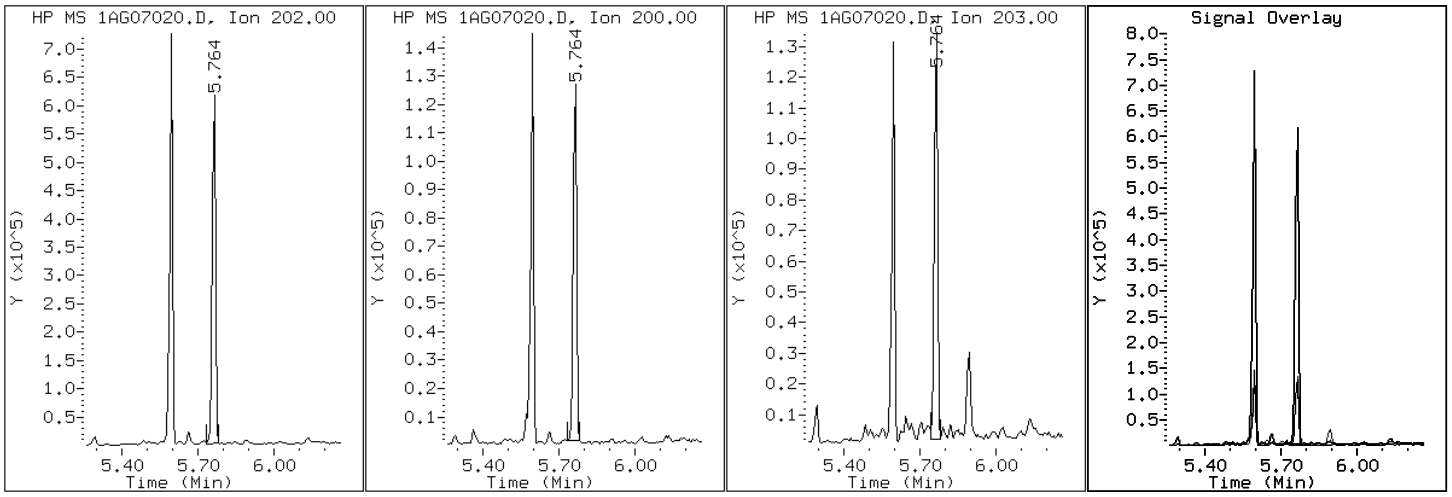
Data File: 1AG07020.D

Date: 07-JUL-2013 18:24

Client ID: CV1363N-CS Instrument: BSMA5973.i

Sample Info: 680-91719-a-20-a Operator: SCC

17 Pyrene



Manual Integration Report

Data File: 1AG07020.D
Inj. Date and Time: 07-JUL-2013 18:24
Instrument ID: BSMA5973.i
Client ID: CV1363N-CS
Compound: 21 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 07/08/2013

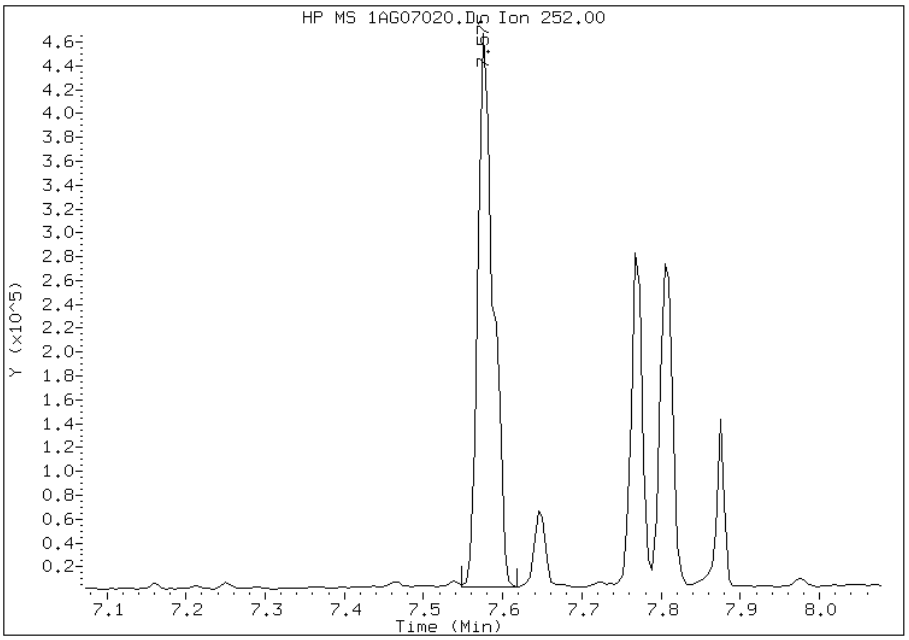
Processing Integration Results

RT: 7.58

Response: 621867

Amount: 7

Conc: 503



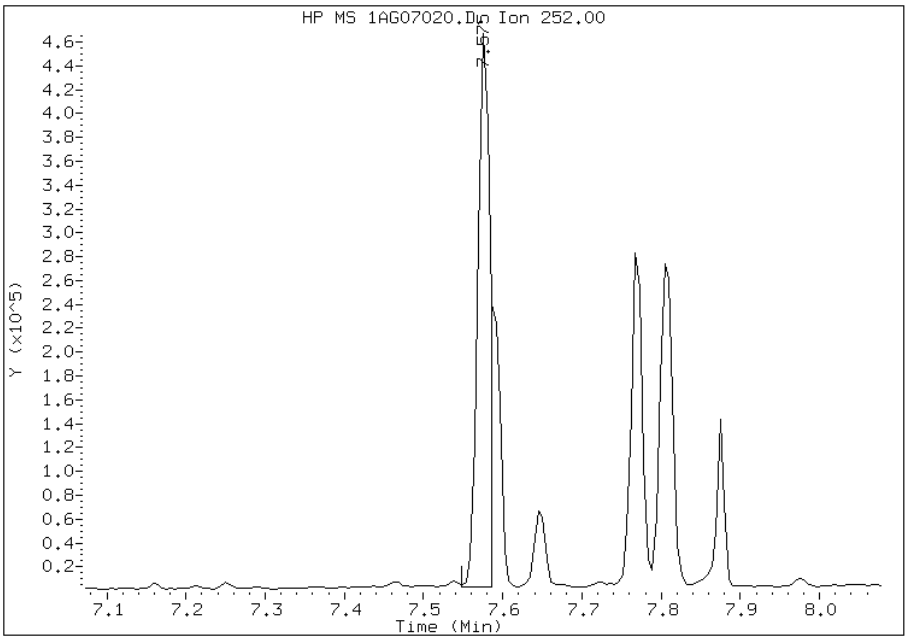
Manual Integration Results

RT: 7.58

Response: 490819

Amount: 5

Conc: 397



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:04
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AG07020.D
Inj. Date and Time: 07-JUL-2013 18:24
Instrument ID: BSMA5973.i
Client ID: CV1363N-CS
Compound: 22 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 07/08/2013

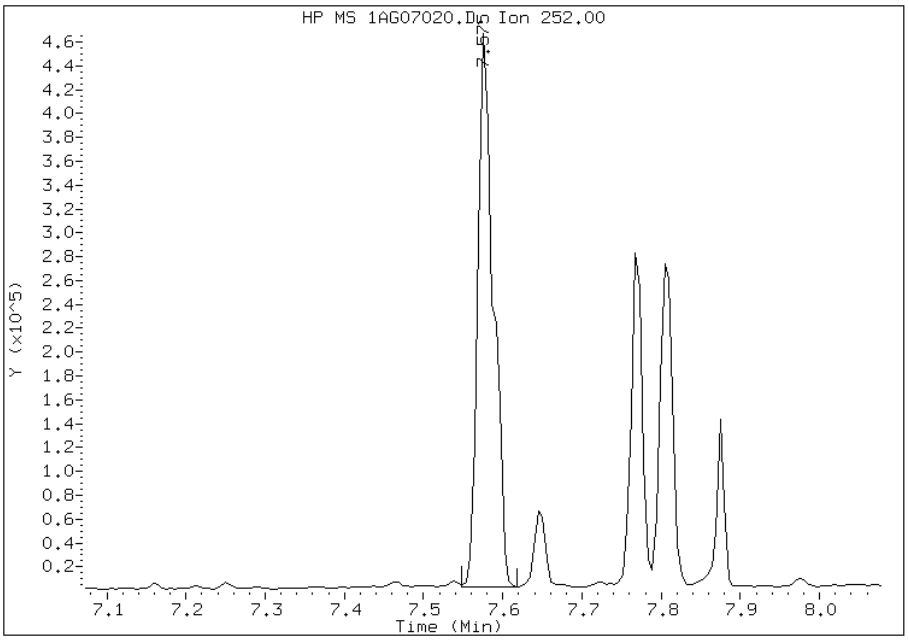
Processing Integration Results

RT: 7.58

Response: 621867

Amount: 7

Conc: 487



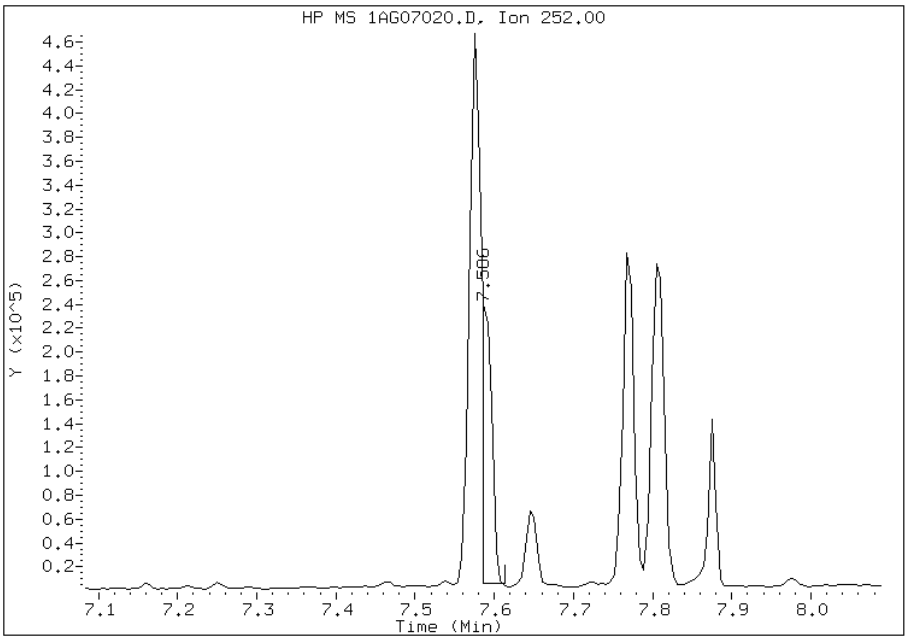
Manual Integration Results

RT: 7.59

Response: 203056

Amount: 2

Conc: 159



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:05
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AG07020.D
Inj. Date and Time: 07-JUL-2013 18:24
Instrument ID: BSMA5973.i
Client ID: CV1363N-CS
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

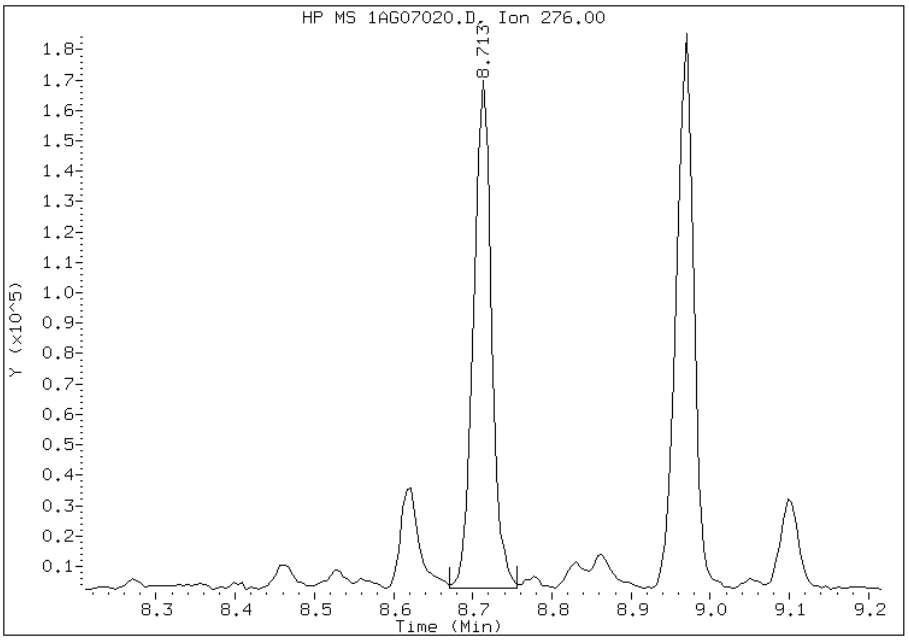
Processing Integration Results

RT: 8.71

Response: 261823

Amount: 4

Conc: 263



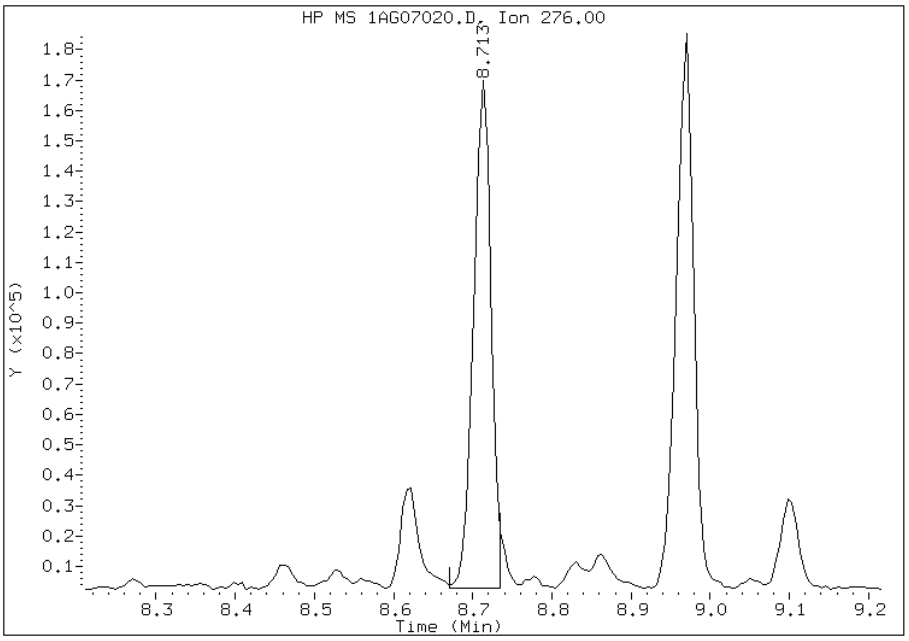
Manual Integration Results

RT: 8.71

Response: 254884

Amount: 3

Conc: 256



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 12:05
Manual Integration Reason: Split Peak

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-91719-1 Analy Batch No.: 138314

SDG No.: 68091719-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 06/11/2013 14:27 Calibration End Date: 06/11/2013 16:13 Calibration ID: 3027

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-138314/5	1AF11005.D
Level 2	IC 660-138314/6	1AF11006.D
Level 3	IC 660-138314/7	1AF11007.D
Level 4	IC 660-138314/8	1AF11008.D
Level 5	ICIS 660-138314/4	1AF11004.D
Level 6	IC 660-138314/9	1AF11009.D
Level 7	IC 660-138314/10	1AF11010.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	1.1723 0.9210	1.1834 0.8257	1.0868	1.1159	1.0058	Ave		1.0444			0.0000	12.8		15.0			
2-Methylnaphthalene	0.7100 0.5360	0.7264 0.4636	0.6883	0.6680	0.5866	Qua	0.0030	1.2202	1.6043		0.0000				1.0000		0.9900
1-Methylnaphthalene	0.8750 0.6060	0.8967 0.5224	0.8050	0.7752	0.6764	Qua	0.0025	1.0201	1.3639		0.0000				1.0000		0.9900
Acenaphthylene	2.5863 1.9303	2.6792 1.6379	2.6072	2.5065	2.1788	Qua	0.0058	0.2899	0.1549		0.0000				0.9999		0.9900
Acenaphthene	1.4257 1.0065	1.4261 0.8502	1.3410	1.2929	1.1280	Qua	0.0062	0.5584	0.5735		0.0000				0.9999		0.9900
Fluorene	1.8788 1.3407	1.8596 1.1438	1.7626	1.7070	1.5402	Qua	0.0074	0.4159	0.3164		0.0000				0.9996		0.9900
Phenanthrene	1.5050 1.0192	1.4651 0.8770	1.3188	1.3007	1.1440	Qua	0.0042	0.5959	0.4927		0.0000				0.9999		0.9900
Anthracene	1.5014 1.1094	1.5492 0.9489	1.4278	1.3795	1.2291	Qua	0.0051	0.5554	0.4148		0.0000				0.9999		0.9900
Fluoranthene	1.7294 1.2719	1.7067 1.0999	1.5703	1.5738	1.4196	Qua	0.0058	0.4968	0.2963		0.0000				0.9998		0.9900
Pyrene	1.6875 1.4959	1.7275 1.4149	1.6763	1.6934	1.5931	Ave		1.6127			0.0000	7.3		15.0			
Benzo[a]anthracene	1.9974 1.3340	1.4609 1.3327	1.3678	1.3838	1.3722	Lin2	-0.002	1.3455							0.9998		
Chrysene	1.5267 1.1771	1.4577 1.1394	1.2674	1.3291	1.2739	Ave		1.3102			0.0000	10.8		15.0			
Benzo[b]fluoranthene	1.3149 1.1733	1.3766 1.1330	1.3351	1.2850	1.2442	Ave		1.2660			0.0000	7.0		15.0			
Benzo[k]fluoranthene	1.6306 1.1914	1.4354 1.0261	1.3735	1.4401	1.2286	Qua	0.0046	0.6005	0.2855		0.0000				0.9993		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-91719-1 Analy Batch No.: 138314

SDG No.: 68091719-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 06/11/2013 14:27 Calibration End Date: 06/11/2013 16:13 Calibration ID: 3027

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[a]pyrene	1.2149 1.1560	1.1935 1.0607	1.2091	1.2505	1.1977	Ave		1.1832			0.0000	5.1		15.0			
Indeno[1,2,3-cd]pyrene	1.0050 1.1095	0.9640 1.0873	1.0294	1.0666	1.1316	Ave		1.0562			0.0000	5.7		15.0			
Dibenz(a,h)anthracene	1.0756 1.0455	1.0157 1.0022	1.0409	1.0872	1.0591	Ave		1.0466			0.0000	2.9		15.0			
Benzo[g,h,i]perylene	1.1430 1.1346	1.1101 1.0748	1.1187	1.1597	1.1320	Ave		1.1247			0.0000	2.4		15.0			
o-Terphenyl	0.8975 0.5846	0.8587 0.5072	0.7857	0.7524	0.6660	Qua	0.0026	1.0388	1.4686		0.0000				0.9998		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-91719-1 Analy Batch No.: 138314

SDG No.: 68091719-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 06/11/2013 14:27 Calibration End Date: 06/11/2013 16:13 Calibration ID: 3027

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-138314/5	1AF11005.D
Level 2	IC 660-138314/6	1AF11006.D
Level 3	IC 660-138314/7	1AF11007.D
Level 4	IC 660-138314/8	1AF11008.D
Level 5	ICIS 660-138314/4	1AF11004.D
Level 6	IC 660-138314/9	1AF11009.D
Level 7	IC 660-138314/10	1AF11010.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	31949 3326970	154451 4860995	706802	1404475	2607937	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Qua	19350 1936226	94807 2729593	447660	840786	1521014	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Qua	23847 2189227	117035 3075350	523506	975633	1753853	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Qua	34415 3520715	172449 5048430	821696	1554021	2791549	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Qua	18971 1835869	91789 2620336	422621	801620	1445278	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Qua	25001 2445422	119695 3525406	555508	1058377	1973361	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Qua	31583 2957432	144297 4351333	658590	1257185	2372612	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Qua	31507 3219050	152583 4707873	713000	1333306	2549176	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Qua	36293 3690687	168090 5456781	784142	1521124	2944221	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	35753 3739097	167082 5558621	809800	1542426	2968654	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Lin2	42319 3334506	141295 5235790	660759	1260429	2557000	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	32346 2942262	140988 4476128	612269	1210601	2373882	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	31821 3452867	146879 5506891	710467	1309504	2718494	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Qua	39460 3506008	153153 4987091	730891	1467570	2684509	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]pyrene	PRY	Ave	29401 3401826	127346 5155395	643416	1274296	2616932	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-91719-1 Analy Batch No.: 138314

SDG No.: 68091719-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 06/11/2013 14:27 Calibration End Date: 06/11/2013 16:13 Calibration ID: 3027

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Indeno[1,2,3-cd]pyrene	PRY	Ave	24321 3265173	102860 5284832	547777	1086943	2472525	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	26029 3076782	108380 4870973	553931	1107880	2314216	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	27661 3338836	118447 5223804	595327	1181829	2473464	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Qua	18834 1696327	84574 2516547	392373	727251	1381274	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\1AF11004.D
Lab Smp Id: ICIS-1559459
Inj Date : 11-JUN-2013 14:27
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\a-bFASTPAHi-m.m
Meth Date : 12-Jun-2013 15:30 BSMA5973.i Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.703	2.703	(1.000)	5185951	40.0000	
* 7 Acenaphthene-d10	164	3.740	3.740	(1.000)	2562463	40.0000	
* 11 Phenanthrene-d10	188	4.712	4.712	(1.000)	4147924	40.0000	
$ 15 o-Terphenyl	230	5.017	5.017	(1.065)	1381274	20.0000	20.4551
* 19 Chrysene-d12	240	6.763	6.763	(1.000)	3726885	40.0000	
* 24 Perylene-d12	264	7.859	7.859	(1.000)	4369974	40.0000	
2 Naphthalene	128	2.714	2.714	(1.004)	2607937	20.0000	19.2604
3 2-Methylnaphthalene	141	3.120	3.120	(1.154)	1521014	20.0000	19.9549
4 1-Methylnaphthalene	142	3.179	3.179	(1.176)	1753853	20.0000	20.1401
6 Acenaphthylene	152	3.649	3.649	(0.976)	2791549	20.0000	20.2196
8 Acenaphthene	154	3.756	3.756	(1.004)	1445278	20.0000	20.1433
10 Fluorene	166	4.082	4.082	(1.091)	1973361	20.0000	20.6109
12 Phenanthrene	178	4.728	4.728	(1.003)	2372612	20.0000	20.2513
13 Anthracene	178	4.766	4.766	(1.011)	2549176	20.0000	20.1246
16 Fluoranthene	202	5.610	5.610	(1.190)	2944221	20.0000	20.3060
17 Pyrene	202	5.775	5.775	(0.854)	2968654	20.0000	19.7574
18 Benzo(a)anthracene	228	6.747	6.747	(0.998)	2557000	20.0000	20.3002
20 Chrysene	228	6.780	6.780	(1.002)	2373882	20.0000	19.4464
21 Benzo(b)fluoranthene	252	7.576	7.576	(0.964)	2718494	20.0000	19.6549
22 Benzo(k)fluoranthene	252	7.597	7.597	(0.967)	2684509	20.0000	19.2509
23 Benzo(a)pyrene	252	7.811	7.811	(0.994)	2616932	20.0000	20.2451
25 Indeno(1,2,3-cd)pyrene	276	8.703	8.703	(1.107)	2472525	20.0000	21.4275
26 Dibenzo(a,h)anthracene	278	8.735	8.735	(1.111)	2314216	20.0000	20.2395
27 Benzo(g,h,i)perylene	276	8.954	8.954	(1.139)	2473464	20.0000	20.1302

Data File: 1AF11004.D

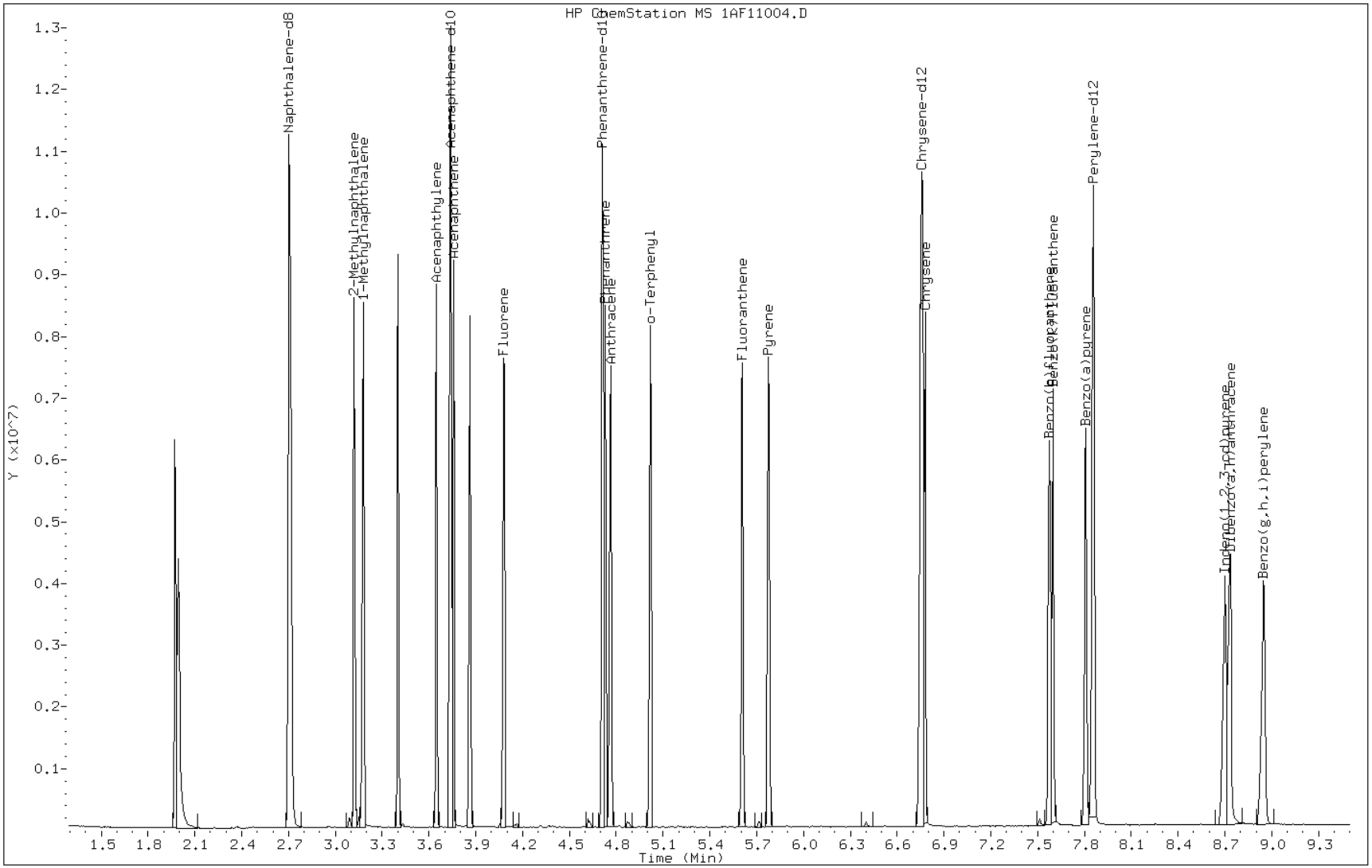
Date: 11-JUN-2013 14:27

Client ID:

Instrument: BSMA5973.i

Sample Info: ICIS-1559459

Operator: SCC



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Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\1AF11005.D
Lab Smp Id: IC-1559454
Inj Date : 11-JUN-2013 14:58
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559454
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\a-bFASTPAHi-m.m
Meth Date : 12-Jun-2013 15:30 BSMA5973.i Quant Type: ISTD
Cal Date : 11-JUN-2013 14:27 Cal File: 1AF11004.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.701	2.703	(1.000)	5450849	40.0000	
* 7 Acenaphthene-d10	164	3.737	3.740	(1.000)	2661355	40.0000	
* 11 Phenanthrene-d10	188	4.715	4.712	(1.000)	4197057	40.0000	
$ 15 o-Terphenyl	230	5.019	5.017	(1.065)	18834	0.20000	0.2916
* 19 Chrysene-d12	240	6.761	6.763	(1.000)	4237389	40.0000	
* 24 Perylene-d12	264	7.872	7.859	(1.000)	4839999	40.0000	
2 Naphthalene	128	2.711	2.714	(1.004)	31949	0.20000	0.2244
3 2-Methylnaphthalene	141	3.123	3.120	(1.156)	19350	0.20000	0.2941
4 1-Methylnaphthalene	142	3.176	3.179	(1.176)	23847	0.20000	0.2803
6 Acenaphthylene	152	3.646	3.649	(0.976)	34415	0.20000	0.3839
8 Acenaphthene	154	3.753	3.756	(1.004)	18971	0.20000	0.4093
10 Fluorene	166	4.079	4.082	(1.091)	25001	0.20000	0.4524
12 Phenanthrene	178	4.725	4.728	(1.002)	31583	0.20000	0.3502
13 Anthracene	178	4.763	4.766	(1.010)	31507	0.20000	0.3722
16 Fluoranthene	202	5.607	5.610	(1.189)	36293	0.20000	0.4030
17 Pyrene	202	5.773	5.775	(0.854)	35753	0.20000	0.2092
18 Benzo(a)anthracene	228	6.750	6.747	(0.998)	42319	0.20000	0.2003
20 Chrysene	228	6.777	6.780	(1.002)	32346	0.20000	0.2330
21 Benzo(b)fluoranthene	252	7.573	7.576	(0.962)	31821	0.20000	0.2077(H)
22 Benzo(k)fluoranthene	252	7.594	7.597	(0.965)	39460	0.20000	0.3812
23 Benzo(a)pyrene	252	7.808	7.811	(0.992)	29401	0.20000	0.2053
25 Indeno(1,2,3-cd)pyrene	276	8.700	8.703	(1.105)	24321	0.20000	0.1903(H)
26 Dibenzo(a,h)anthracene	278	8.732	8.735	(1.109)	26029	0.20000	0.2055(M)
27 Benzo(g,h,i)perylene	276	8.946	8.954	(1.136)	27661	0.20000	0.2032

QC Flag Legend

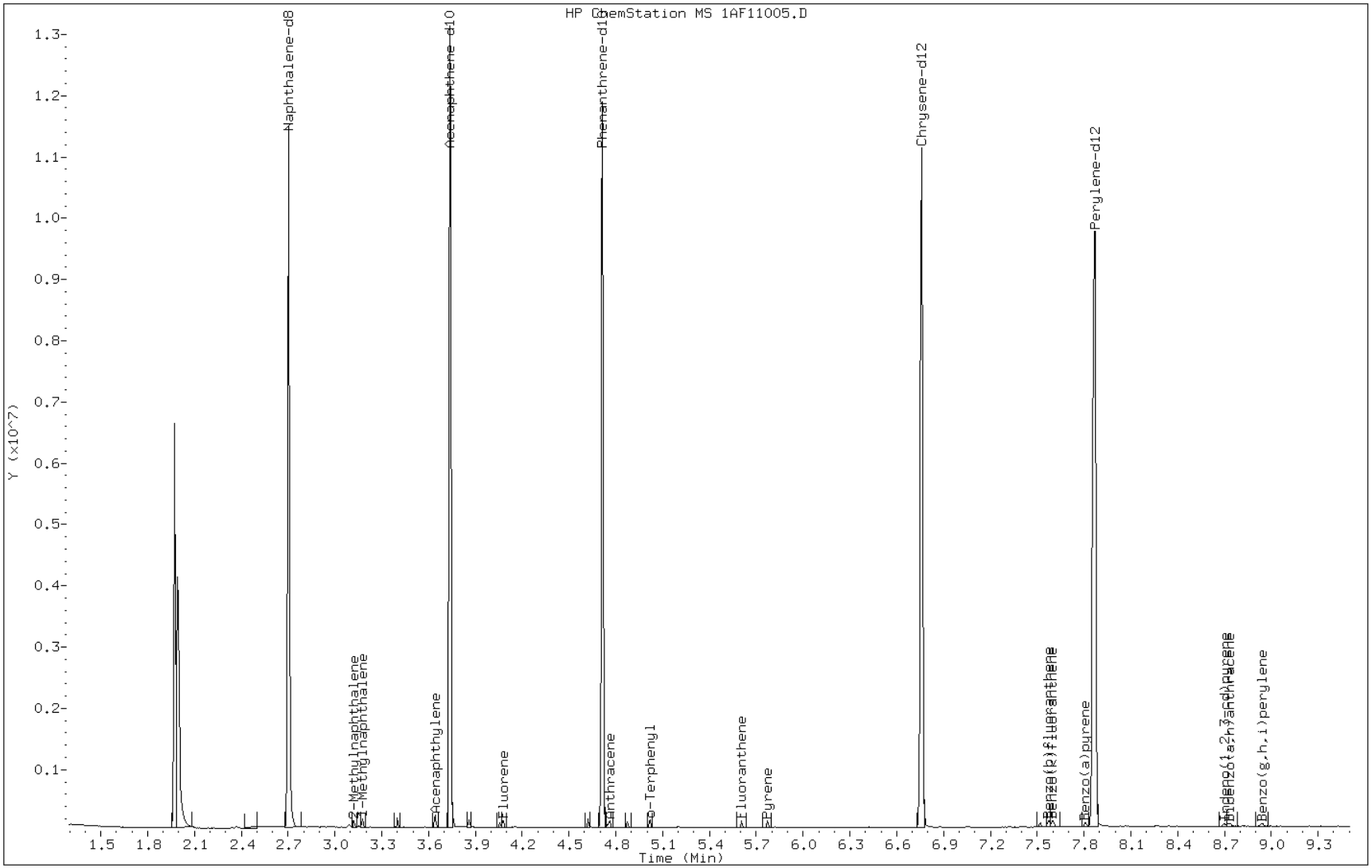
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AF11005.D

Date: 11-JUN-2013 14:58

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559454 Operator: SCC



Manual Integration Report

Data File: 1AF11005.D
Inj. Date and Time: 11-JUN-2013 14:58
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 06/12/2013

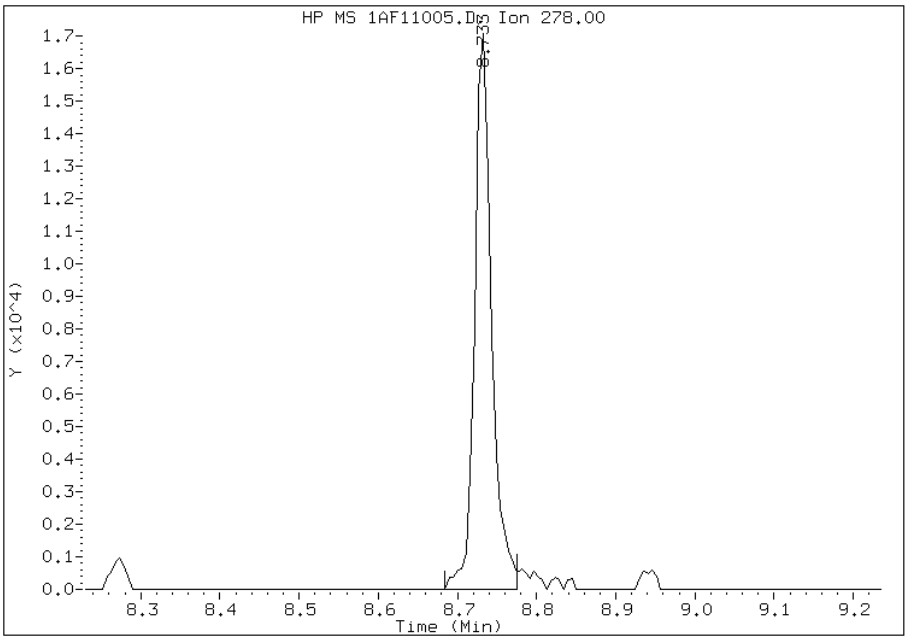
Processing Integration Results

RT: 8.73

Response: 25154

Amount: 1

Conc: 1



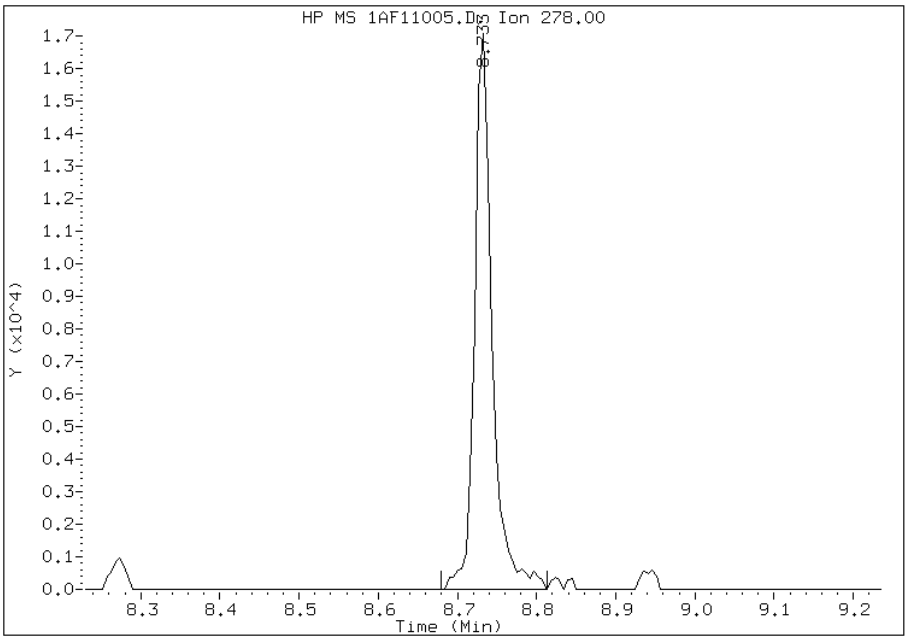
Manual Integration Results

RT: 8.73

Response: 26029

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 11-Jun-2013 15:17
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\1AF11006.D
Lab Smp Id: IC-1559455
Inj Date : 11-JUN-2013 15:13
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559455
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\a-bFASTPAHi-m.m
Meth Date : 12-Jun-2013 15:30 BSMA5973.i Quant Type: ISTD
Cal Date : 11-JUN-2013 14:58 Cal File: 1AF11005.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

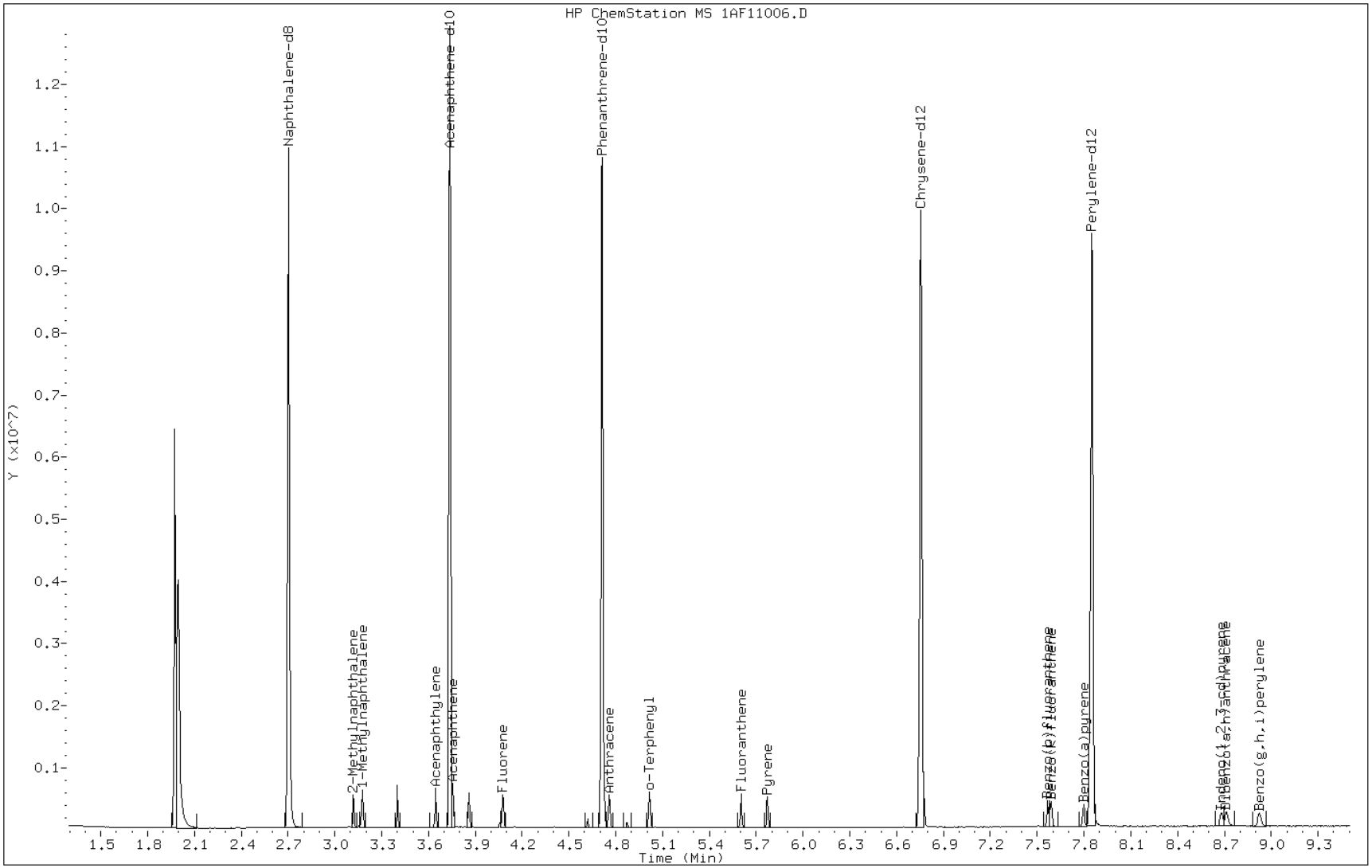
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.701	2.703	(1.000)	5220699	40.0000	
* 7 Acenaphthene-d10	164	3.737	3.740	(1.000)	2574634	40.0000	
* 11 Phenanthrene-d10	188	4.715	4.712	(1.000)	3939619	40.0000	
$ 15 o-Terphenyl	230	5.014	5.017	(1.063)	84574	1.00000	1.0230
* 19 Chrysene-d12	240	6.756	6.763	(1.000)	3868739	40.0000	
* 24 Perylene-d12	264	7.851	7.859	(1.000)	4267983	40.0000	
2 Naphthalene	128	2.717	2.714	(1.006)	154451	1.00000	1.1330
3 2-Methylnaphthalene	141	3.118	3.120	(1.154)	94807	1.00000	1.0275
4 1-Methylnaphthalene	142	3.176	3.179	(1.176)	117035	1.00000	1.0429
6 Acenaphthylene	152	3.646	3.649	(0.976)	172449	1.00000	1.0375
8 Acenaphthene	154	3.753	3.756	(1.004)	91789	1.00000	1.0744
10 Fluorene	166	4.074	4.082	(1.090)	119695	1.00000	1.0957
12 Phenanthrene	178	4.726	4.728	(1.002)	144297	1.00000	1.0692
13 Anthracene	178	4.758	4.766	(1.009)	152583	1.00000	1.0898
16 Fluoranthene	202	5.602	5.610	(1.188)	168090	1.00000	1.0996
17 Pyrene	202	5.773	5.775	(0.855)	167082	1.00000	1.0712
18 Benzo(a)anthracene	228	6.745	6.747	(0.998)	141295	1.00000	0.9892
20 Chrysene	228	6.772	6.780	(1.002)	140988	1.00000	1.1126
21 Benzo(b)fluoranthene	252	7.568	7.576	(0.964)	146879	1.00000	1.0873
22 Benzo(k)fluoranthene	252	7.589	7.597	(0.967)	153153	1.00000	1.0613
23 Benzo(a)pyrene	252	7.797	7.811	(0.993)	127346	1.00000	1.0087
25 Indeno(1,2,3-cd)pyrene	276	8.684	8.703	(1.106)	102860	1.00000	0.9127
26 Dibenzo(a,h)anthracene	278	8.716	8.735	(1.110)	108380	1.00000	0.9705
27 Benzo(g,h,i)perylene	276	8.924	8.954	(1.137)	118447	1.00000	0.9870

Data File: 1AF11006.D

Date: 11-JUN-2013 15:13

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559455 Operator: SCC



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Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\1AF11007.D
Lab Smp Id: IC-1559457
Inj Date : 11-JUN-2013 15:28
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559457
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\a-bFASTPAHi-m.m
Meth Date : 12-Jun-2013 15:30 BSMA5973.i Quant Type: ISTD
Cal Date : 11-JUN-2013 15:13 Cal File: 1AF11006.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.703	2.703	(1.000)	5202791	40.0000	
* 7 Acenaphthene-d10	164	3.739	3.740	(1.000)	2521292	40.0000	
* 11 Phenanthrene-d10	188	4.711	4.712	(1.000)	3994946	40.0000	
$ 15 o-Terphenyl	230	5.016	5.017	(1.065)	392373	5.00000	4.7518
* 19 Chrysene-d12	240	6.757	6.763	(1.000)	3864718	40.0000	
* 24 Perylene-d12	264	7.858	7.859	(1.000)	4257193	40.0000	
2 Naphthalene	128	2.713	2.714	(1.004)	706802	5.00000	5.2030
3 2-Methylnaphthalene	141	3.119	3.120	(1.154)	447660	5.00000	4.7945
4 1-Methylnaphthalene	142	3.178	3.179	(1.176)	523506	5.00000	4.7588
6 Acenaphthylene	152	3.648	3.649	(0.976)	821696	5.00000	4.6705
8 Acenaphthene	154	3.755	3.756	(1.004)	422621	5.00000	4.6372
10 Fluorene	166	4.076	4.082	(1.090)	555508	5.00000	4.5743
12 Phenanthrene	178	4.727	4.728	(1.003)	658590	5.00000	4.6347
13 Anthracene	178	4.759	4.766	(1.010)	713000	5.00000	4.6980
16 Fluoranthene	202	5.603	5.610	(1.189)	784142	5.00000	4.5872
17 Pyrene	202	5.774	5.775	(0.855)	809800	5.00000	5.1972
18 Benzo(a)anthracene	228	6.741	6.747	(0.998)	660759	5.00000	4.9862
20 Chrysene	228	6.773	6.780	(1.002)	612269	5.00000	4.8367
21 Benzo(b)fluoranthene	252	7.569	7.576	(0.963)	710467	5.00000	5.2728
22 Benzo(k)fluoranthene	252	7.591	7.597	(0.966)	730891	5.00000	4.6452
23 Benzo(a)pyrene	252	7.799	7.811	(0.993)	643416	5.00000	5.1094
25 Indeno(1,2,3-cd)pyrene	276	8.686	8.703	(1.105)	547777	5.00000	4.8729
26 Dibenzo(a,h)anthracene	278	8.718	8.735	(1.109)	553931	5.00000	4.9728
27 Benzo(g,h,i)perylene	276	8.932	8.954	(1.137)	595327	5.00000	4.9734

Data File: 1AF11007.D

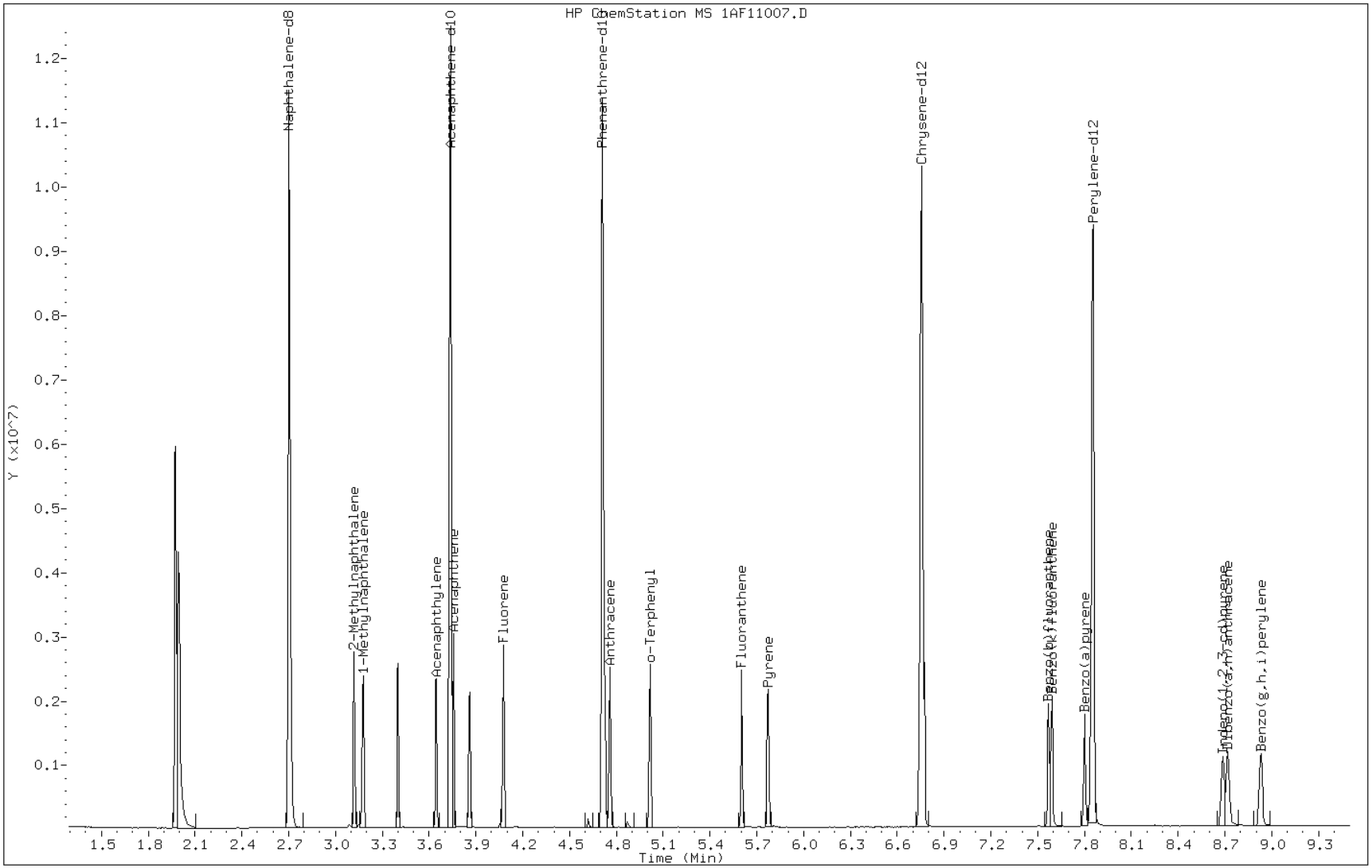
Date: 11-JUN-2013 15:28

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1559457

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\1AF11008.D
Lab Smp Id: IC-1559458
Inj Date : 11-JUN-2013 15:43
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559458
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\a-bFASTPAHi-m.m
Meth Date : 12-Jun-2013 15:30 BSMA5973.i Quant Type: ISTD
Cal Date : 11-JUN-2013 15:28 Cal File: 1AF11007.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

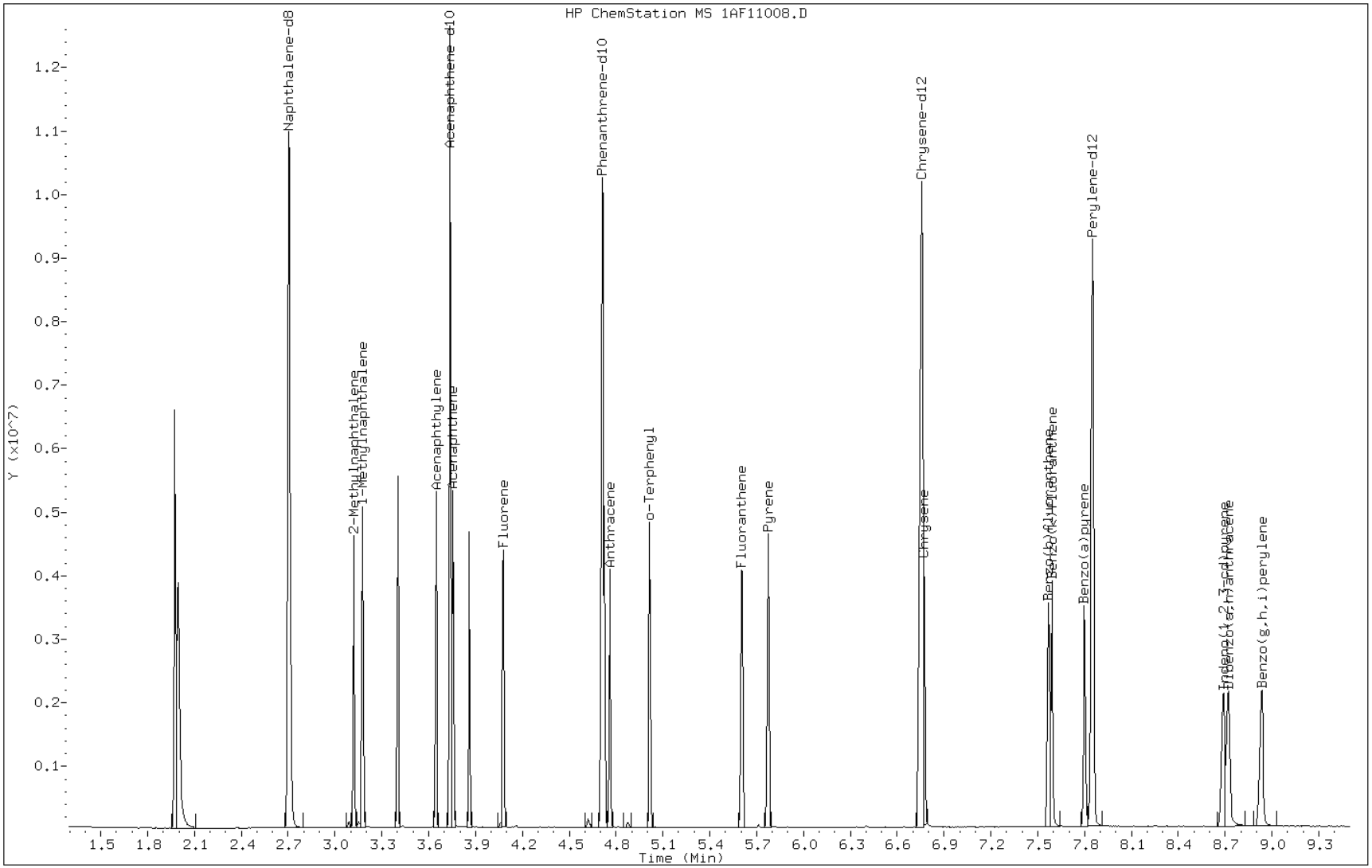
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.701	2.703	(1.000)	5034439	40.0000	
* 7 Acenaphthene-d10	164	3.737	3.740	(1.000)	2480026	40.0000	
* 11 Phenanthrene-d10	188	4.710	4.712	(1.000)	3866184	40.0000	
$ 15 o-Terphenyl	230	5.014	5.017	(1.065)	727251	10.0000	9.9987
* 19 Chrysene-d12	240	6.756	6.763	(1.000)	3643335	40.0000	
* 24 Perylene-d12	264	7.851	7.859	(1.000)	4076245	40.0000	
2 Naphthalene	128	2.717	2.714	(1.006)	1404475	10.0000	10.6846
3 2-Methylnaphthalene	141	3.118	3.120	(1.154)	840786	10.0000	10.0608
4 1-Methylnaphthalene	142	3.176	3.179	(1.176)	975633	10.0000	10.0571
6 Acenaphthylene	152	3.647	3.649	(0.976)	1554021	10.0000	9.9324
8 Acenaphthene	154	3.753	3.756	(1.004)	801620	10.0000	9.8647
10 Fluorene	166	4.079	4.082	(1.091)	1058377	10.0000	9.6988
12 Phenanthrene	178	4.726	4.728	(1.003)	1257185	10.0000	10.0042
13 Anthracene	178	4.758	4.766	(1.010)	1333306	10.0000	9.8393
16 Fluoranthene	202	5.607	5.610	(1.191)	1521124	10.0000	9.8830
17 Pyrene	202	5.773	5.775	(0.855)	1542426	10.0000	10.5008
18 Benzo(a)anthracene	228	6.745	6.747	(0.998)	1260429	10.0000	10.1882
20 Chrysene	228	6.772	6.780	(1.002)	1210601	10.0000	10.1444
21 Benzo(b)fluoranthene	252	7.568	7.576	(0.964)	1309504	10.0000	10.1500
22 Benzo(k)fluoranthene	252	7.589	7.597	(0.967)	1467570	10.0000	10.3132
23 Benzo(a)pyrene	252	7.797	7.811	(0.993)	1274296	10.0000	10.5685
25 Indeno(1,2,3-cd)pyrene	276	8.690	8.703	(1.107)	1086943	10.0000	10.0985
26 Dibenzo(a,h)anthracene	278	8.722	8.735	(1.111)	1107880	10.0000	10.3874
27 Benzo(g,h,i)perylene	276	8.935	8.954	(1.138)	1181829	10.0000	10.3113

Data File: 1AF11008.D

Date: 11-JUN-2013 15:43

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559458 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\1AF11009.D
Lab Smp Id: IC-1559464
Inj Date : 11-JUN-2013 15:58
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559464
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\a-bFASTPAHi-m.m
Meth Date : 12-Jun-2013 15:30 BSMA5973.i Quant Type: ISTD
Cal Date : 11-JUN-2013 15:43 Cal File: 1AF11008.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.701	2.703	(1.000)	4816575	40.0000	
* 7 Acenaphthene-d10	164	3.737	3.740	(1.000)	2431947	40.0000	
* 11 Phenanthrene-d10	188	4.715	4.712	(1.000)	3868953	40.0000	
$ 15 o-Terphenyl	230	5.019	5.017	(1.065)	1696327	30.0000	29.6148
* 19 Chrysene-d12	240	6.761	6.763	(1.000)	3332810	40.0000	
* 24 Perylene-d12	264	7.851	7.859	(1.000)	3923780	40.0000	
2 Naphthalene	128	2.717	2.714	(1.006)	3326970	30.0000	26.4549
3 2-Methylnaphthalene	141	3.123	3.120	(1.156)	1936226	30.0000	30.1098
4 1-Methylnaphthalene	142	3.176	3.179	(1.176)	2189227	30.0000	29.9175
6 Acenaphthylene	152	3.647	3.649	(0.976)	3520715	30.0000	30.0067
8 Acenaphthene	154	3.759	3.756	(1.006)	1835869	30.0000	30.1814
10 Fluorene	166	4.079	4.082	(1.091)	2445422	30.0000	29.8181
12 Phenanthrene	178	4.731	4.728	(1.003)	2957432	30.0000	29.9043
13 Anthracene	178	4.763	4.766	(1.010)	3219050	30.0000	30.1752
16 Fluoranthene	202	5.607	5.610	(1.189)	3690687	30.0000	29.9703
17 Pyrene	202	5.778	5.775	(0.855)	3739097	30.0000	27.8274
18 Benzo(a)anthracene	228	6.750	6.747	(0.998)	3334506	30.0000	29.6474
20 Chrysene	228	6.782	6.780	(1.003)	2942262	30.0000	26.9523
21 Benzo(b)fluoranthene	252	7.573	7.576	(0.965)	3452867	30.0000	27.8034
22 Benzo(k)fluoranthene	252	7.600	7.597	(0.968)	3506008	30.0000	30.7666
23 Benzo(a)pyrene	252	7.808	7.811	(0.995)	3401826	30.0000	29.3098
25 Indeno(1,2,3-cd)pyrene	276	8.700	8.703	(1.108)	3265173	30.0000	31.5146
26 Dibenzo(a,h)anthracene	278	8.732	8.735	(1.112)	3076782	30.0000	29.9687
27 Benzo(g,h,i)perylene	276	8.951	8.954	(1.140)	3338836	30.0000	30.2630

Data File: 1AF11009.D

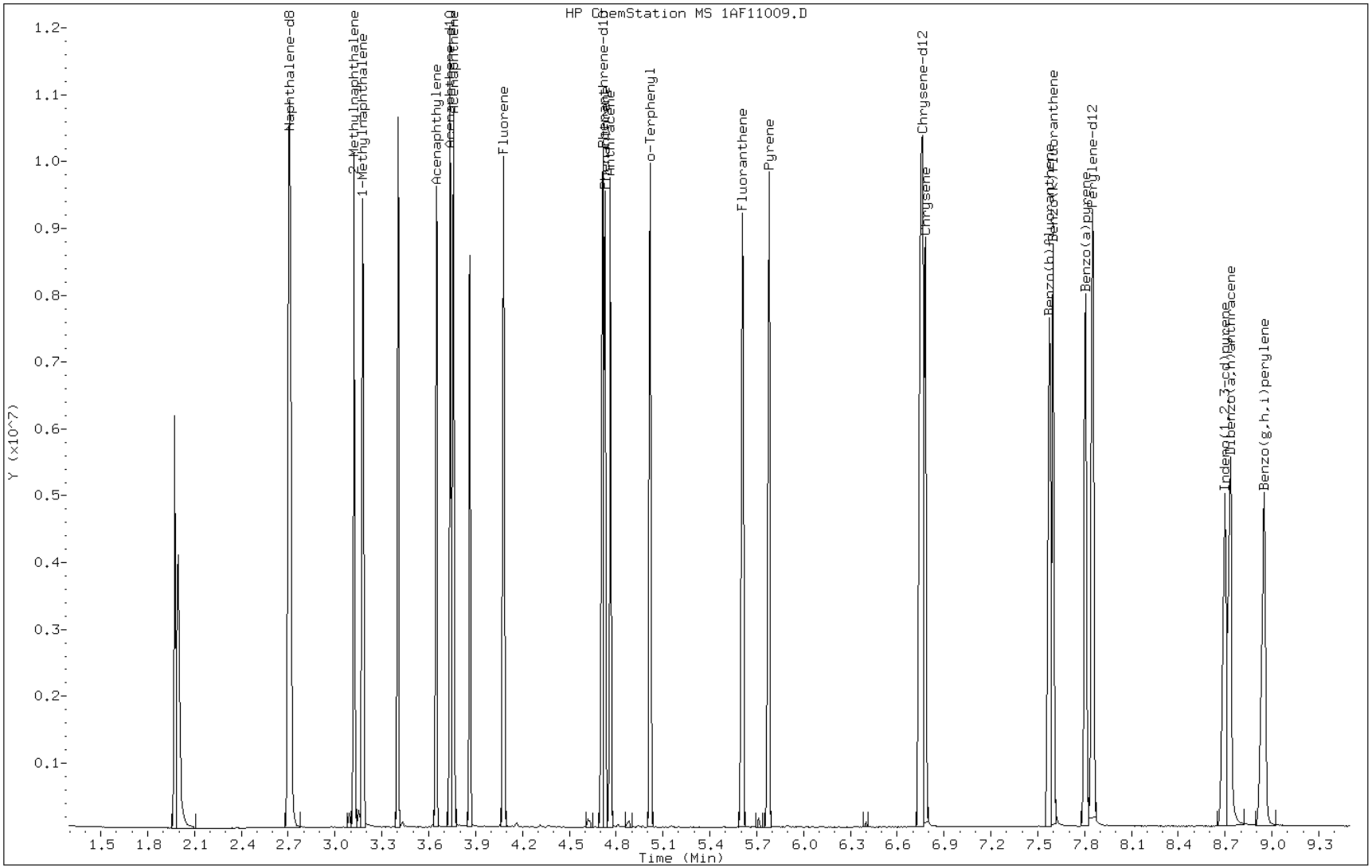
Date: 11-JUN-2013 15:58

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1559464

Operator: SCC



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Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\1AF11010.D
Lab Smp Id: IC-1559465
Inj Date : 11-JUN-2013 16:13
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559465
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\a-bFASTPAHi-m.m
Meth Date : 12-Jun-2013 15:30 BSMA5973.i Quant Type: ISTD
Cal Date : 11-JUN-2013 15:58 Cal File: 1AF11009.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.704	2.703	(1.000)	4709953	40.0000	
* 7 Acenaphthene-d10	164	3.741	3.740	(1.000)	2465737	40.0000	
* 11 Phenanthrene-d10	188	4.713	4.712	(1.000)	3969083	40.0000	
$ 15 o-Terphenyl	230	5.023	5.017	(1.066)	2516547	50.0000	50.0646(A)
* 19 Chrysene-d12	240	6.764	6.763	(1.000)	3142871	40.0000	
* 24 Perylene-d12	264	7.859	7.859	(1.000)	3888339	40.0000	
2 Naphthalene	128	2.715	2.714	(1.004)	4860995	50.0000	39.5280
3 2-Methylnaphthalene	141	3.121	3.120	(1.154)	2729593	50.0000	49.9581
4 1-Methylnaphthalene	142	3.180	3.179	(1.176)	3075350	50.0000	50.0029(A)
6 Acenaphthylene	152	3.650	3.649	(0.976)	5048430	50.0000	49.9490
8 Acenaphthene	154	3.762	3.756	(1.006)	2620336	50.0000	49.8895
10 Fluorene	166	4.082	4.082	(1.091)	3525406	50.0000	49.9495
12 Phenanthrene	178	4.734	4.728	(1.005)	4351333	50.0000	49.9858
13 Anthracene	178	4.766	4.766	(1.011)	4707873	50.0000	49.9006
16 Fluoranthene	202	5.610	5.610	(1.190)	5456781	50.0000	49.9505
17 Pyrene	202	5.781	5.775	(0.855)	5558621	50.0000	43.8690
18 Benzo(a)anthracene	228	6.748	6.747	(0.998)	5235790	50.0000	49.4294
20 Chrysene	228	6.786	6.780	(1.003)	4476128	50.0000	43.4813
21 Benzo(b)fluoranthene	252	7.582	7.576	(0.965)	5506891	50.0000	44.7471
22 Benzo(k)fluoranthene	252	7.608	7.597	(0.968)	4987091	50.0000	49.7813
23 Benzo(a)pyrene	252	7.817	7.811	(0.995)	5155395	50.0000	44.8233
25 Indeno(1,2,3-cd)pyrene	276	8.709	8.703	(1.108)	5284832	50.0000	51.4728(A)
26 Dibenzo(a,h)anthracene	278	8.746	8.735	(1.113)	4870973	50.0000	47.8771
27 Benzo(g,h,i)perylene	276	8.970	8.954	(1.141)	5223804	50.0000	47.7799

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: 1AF11010.D

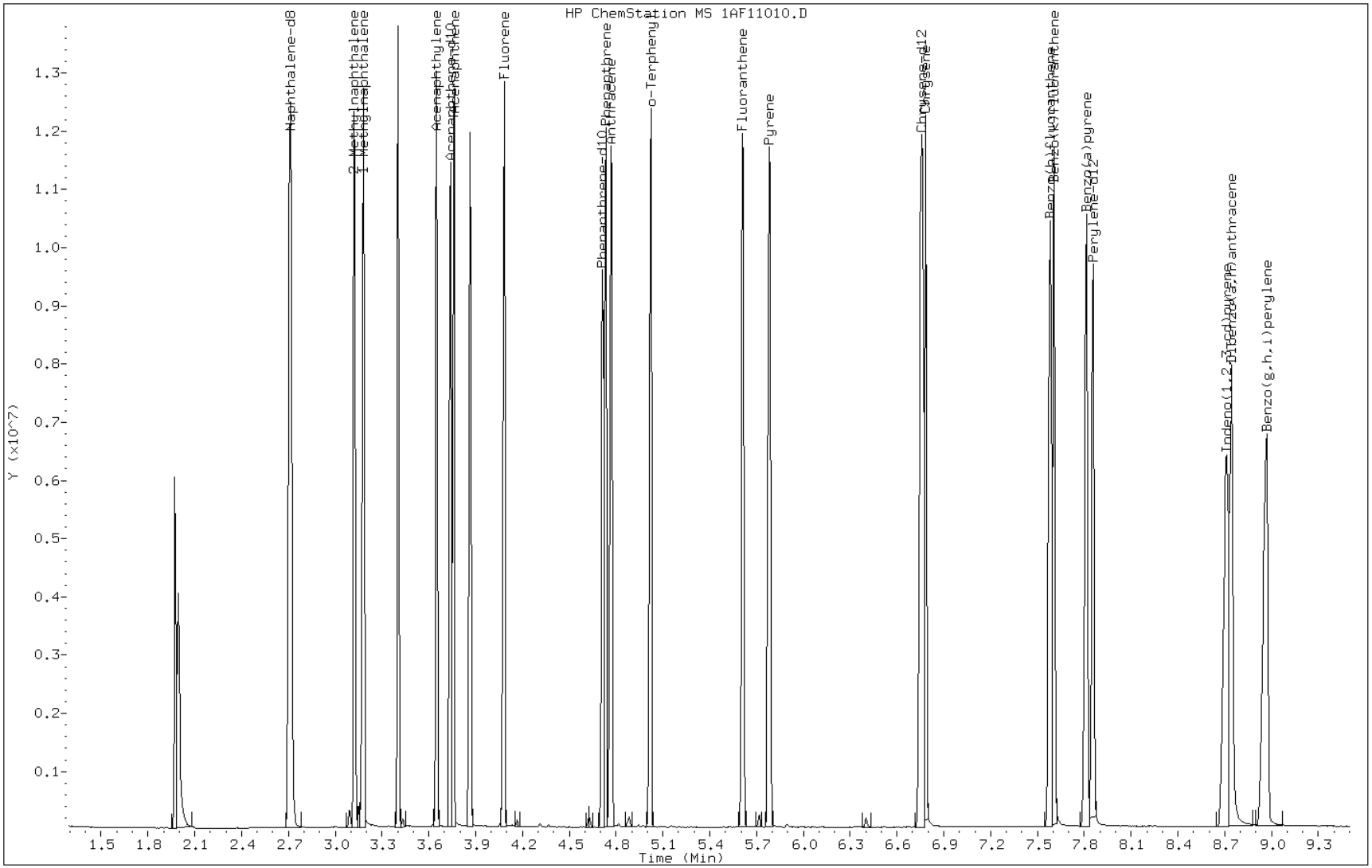
Date: 11-JUN-2013 16:13

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1559465

Operator: SCC



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-91719-1 Analy Batch No.: 139145

SDG No.: 68091719-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2013 14:06 Calibration End Date: 07/07/2013 15:46 Calibration ID: 3117

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-139145/8	1AG07007.D
Level 2	IC 660-139145/9	1AG07008.D
Level 3	IC 660-139145/10	1AG07009.D
Level 4	IC 660-139145/11	1AG07010.D
Level 5	ICIS 660-139145/7	1AG07006.D
Level 6	IC 660-139145/12	1AG07011.D
Level 7	IC 660-139145/13	1AG07012.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.9023 0.9100	0.9222 0.8955	0.8708	0.9212	0.9041	Ave		0.9038			0.0000	1.9		15.0			
2-Methylnaphthalene	0.4971 0.5068	0.5433 0.4921	0.5106	0.5442	0.5152	Ave		0.5156			0.0000	4.0		15.0			
1-Methylnaphthalene	0.6060 0.5864	0.6347 0.5720	0.6103	0.6132	0.5920	Ave		0.6021			0.0000	3.4		15.0			
1,1'-Biphenyl	0.8067 0.7493	0.7768 0.7060	0.7329	0.7740	0.7544	Ave		0.7571				4.3					
Acenaphthylene	1.7748 1.7947	1.7666 1.7441	1.7388	1.8319	1.8395	Ave		1.7843			0.0000	2.2		15.0			
Acenaphthene	0.8766 0.9602	0.9457 0.9331	0.9080	0.9470	0.9746	Ave		0.9350			0.0000	3.6		15.0			
Dibenzofuran	1.5200 1.5534	1.5328 1.5121	1.4888	1.5791	1.5737	Ave		1.5371				2.2					
Fluorene	1.1858 1.2643	1.2490 1.2493	1.2507	1.2841	1.2744	Ave		1.2511			0.0000	2.5		15.0			
Phenanthrene	1.1284 0.9745	1.0308 0.9846	0.9800	1.0258	1.0022	Ave		1.0180			0.0000	5.2		15.0			
Anthracene	1.0428 1.0486	1.0947 1.0171	1.0770	1.0851	1.0658	Ave		1.0616			0.0000	2.6		15.0			
Fluoranthene	1.2446 1.2154	1.2368 1.1671	1.2314	1.2700	1.2098	Ave		1.2250			0.0000	2.6		15.0			
Pyrene	1.2793 1.3488	1.3595 1.3081	1.3115	1.3747	1.3397	Ave		1.3316			0.0000	2.5		15.0			
Benzo[a]anthracene	1.9845 1.2875	1.3732 1.2641	1.2173	1.3378	1.2673	Lin1	-0.003	1.2697							0.9996		
Chrysene	1.1099 1.0735	1.0886 1.0798	1.0604	1.0922	1.0806	Ave		1.0836			0.0000	1.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Tampa Job No.: 680-91719-1 Analy Batch No.: 139145

SDG No.: 68091719-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2013 14:06 Calibration End Date: 07/07/2013 15:46 Calibration ID: 3117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[b]fluoranthene	1.1087 1.1274	1.0600 1.1737	1.2193	1.1486	1.1330	Ave		1.1387			0.0000	4.4		15.0			
Benzo[k]fluoranthene	1.3643 1.1493	1.2719 1.0848	1.0256	1.2309	1.1030	Ave		1.1757			0.0000	10.1		15.0			
Benzo[a]pyrene	1.0682 1.0625	1.0477 1.0655	1.0075	1.0738	1.0459	Ave		1.0530			0.0000	2.1		15.0			
Indeno[1,2,3-cd]pyrene	0.8684 0.9382	0.8748 1.0101	0.8587	0.9451	0.9318	Ave		0.9182			0.0000	5.9		15.0			
Dibenz(a,h)anthracene	0.8537 0.8772	0.8828 0.9092	0.8085	0.8712	0.8744	Ave		0.8681			0.0000	3.6		15.0			
Benzo[g,h,i]perylene	0.8566 0.8816	0.8766 0.8924	0.8174	0.8850	0.8842	Ave		0.8705			0.0000	3.0		15.0			
o-Terphenyl	0.6096 0.5945	0.6268 0.5940	0.6045	0.6186	0.6068	Ave		0.6078			0.0000	2.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-91719-1 Analy Batch No.: 139145

SDG No.: 68091719-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2013 14:06 Calibration End Date: 07/07/2013 15:46 Calibration ID: 3117

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-139145/8	1AG07007.D
Level 2	IC 660-139145/9	1AG07008.D
Level 3	IC 660-139145/10	1AG07009.D
Level 4	IC 660-139145/11	1AG07010.D
Level 5	ICIS 660-139145/7	1AG07006.D
Level 6	IC 660-139145/12	1AG07011.D
Level 7	IC 660-139145/13	1AG07012.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	13431 1927893	61877 2852835	301095	605351	1383006	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	7399 1073707	36454 1567778	176549	357594	788013	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	9020 1242182	42586 1822273	211021	402937	905485	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1,1'-Biphenyl	NPT	Ave	12008 1587355	52120 2249022	253396	508614	1153898	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	14614 2033091	65620 2885030	332425	653627	1501379	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	7218 1087780	35129 1543480	173599	337901	795500	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenzofuran	ANT	Ave	12516 1759761	56937 2501371	284635	563427	1284453	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	9764 1432257	46393 2066554	239103	458164	1040175	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	14233 1773307	57325 2590983	290573	571628	1316515	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	13153 1908133	60878 2676534	319342	604719	1400023	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	15699 2211610	68785 3071278	365106	707750	1589170	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	15341 2186947	71019 3087188	367477	705318	1612700	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Lin1	23798 2087536	71737 2983331	341097	686400	1525597	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	13310 1740672	56871 2548308	297114	560406	1300893	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	13885 2011962	59453 3015708	372570	639030	1413979	0.200 30.0	1.00 50.0	5.00	10.0	20.0

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-91719-1 Analy Batch No.: 139145

SDG No.: 68091719-1

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2013 14:06 Calibration End Date: 07/07/2013 15:46 Calibration ID: 3117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[k]fluoranthene	PRY	Ave	17087 2051012	71340 2787317	313390	684827	1376535	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]pyrene	PRY	Ave	13378 1896070	58766 2737842	307843	597414	1305339	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	10876 1674354	49064 2595380	262402	525835	1162923	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	10692 1565377	49514 2336050	247039	484702	1091241	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	10728 1573264	49166 2292969	249756	492386	1103444	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	7689 1081834	34857 1563245	179250	344702	797094	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07006.D
Lab Smp Id: ICIS-1559459
Inj Date : 07-JUL-2013 14:06
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:41 BSMA5973.i Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

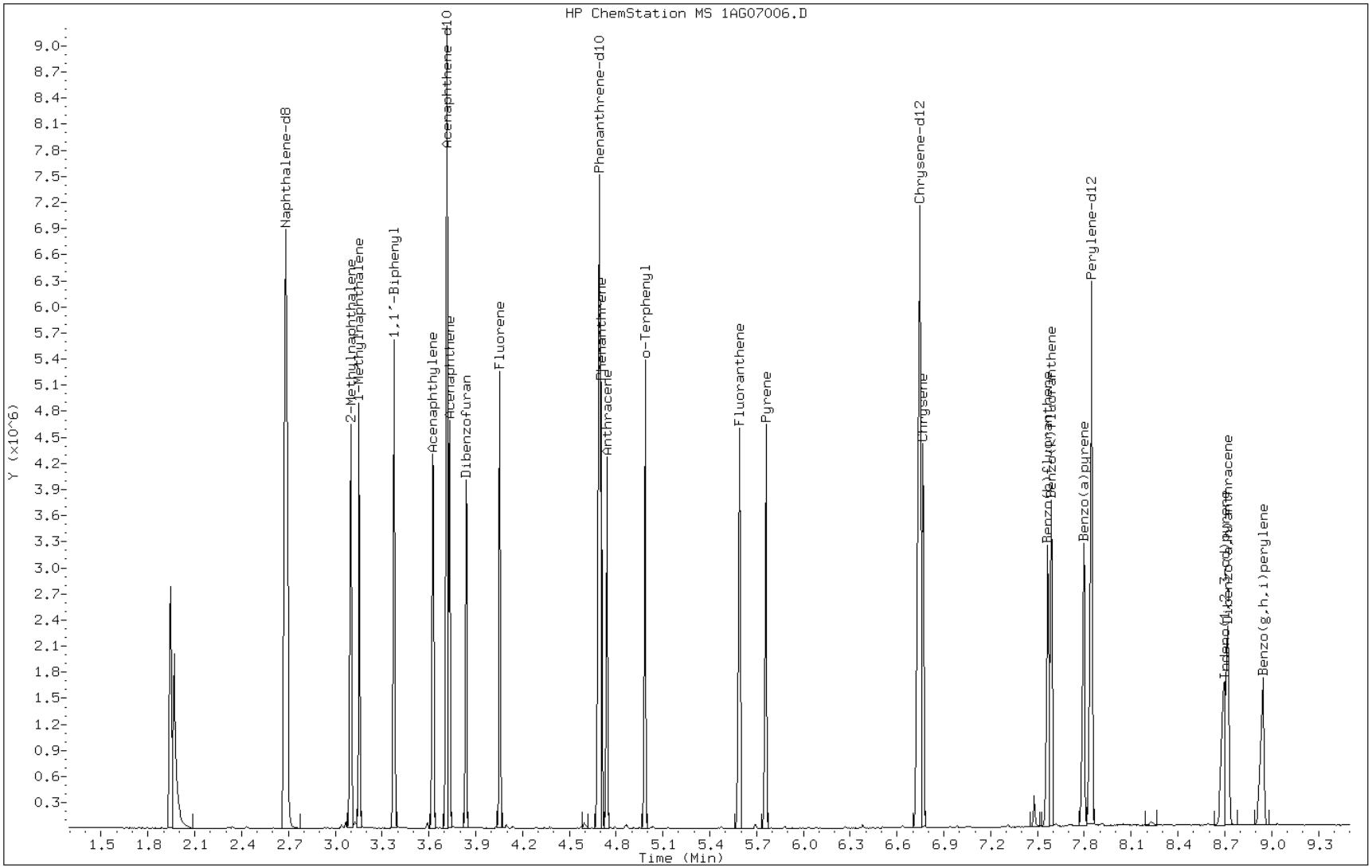
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.683	2.683	(1.000)	3059306	40.0000	
* 7 Acenaphthene-d10	164	3.714	3.714	(1.000)	1632402	40.0000	
* 11 Phenanthrene-d10	188	4.691	4.691	(1.000)	2627201	40.0000	
$ 15 o-Terphenyl	230	4.985	4.985	(1.063)	797094	20.0000	20.1393
* 19 Chrysene-d12	240	6.748	6.748	(1.000)	2407613	40.0000	
* 24 Perylene-d12	264	7.848	7.848	(1.000)	2496028	40.0000	
2 Naphthalene	128	2.693	2.693	(1.004)	1383006	20.0000	20.0083
3 2-Methylnaphthalene	141	3.099	3.099	(1.155)	788013	20.0000	19.9192
4 1-Methylnaphthalene	142	3.153	3.153	(1.175)	905485	20.0000	19.9066
5 1,1'-Biphenyl	154	3.377	3.377	(1.259)	1153898	20.0000	19.9262
6 Acenaphthylene	152	3.628	3.628	(0.977)	1501379	20.0000	20.1747
8 Acenaphthene	154	3.735	3.735	(1.006)	795500	20.0000	20.1490
9 Dibenzofuran	168	3.836	3.836	(1.033)	1284453	20.0000	20.4756
10 Fluorene	166	4.055	4.055	(1.092)	1040175	20.0000	20.0258
12 Phenanthrene	178	4.707	4.707	(1.003)	1316515	20.0000	20.2411
13 Anthracene	178	4.739	4.739	(1.010)	1400023	20.0000	20.0049
16 Fluoranthene	202	5.589	5.589	(1.191)	1589170	20.0000	19.6973
17 Pyrene	202	5.760	5.760	(0.854)	1612700	20.0000	20.1206
18 Benzo(a)anthracene	228	6.732	6.732	(0.998)	1525597	20.0000	19.9969
20 Chrysene	228	6.764	6.764	(1.002)	1300893	20.0000	19.9457
21 Benzo(b)fluoranthene	252	7.565	7.565	(0.964)	1413979	20.0000	19.9002
22 Benzo(k)fluoranthene	252	7.587	7.587	(0.967)	1376535	20.0000	19.1822
23 Benzo(a)pyrene	252	7.795	7.795	(0.993)	1305339	20.0000	19.8653
25 Indeno(1,2,3-cd)pyrene	276	8.692	8.692	(1.108)	1162923	20.0000	20.2972
26 Dibenzo(a,h)anthracene	278	8.719	8.719	(1.111)	1091241	20.0000	20.1440
27 Benzo(g,h,i)perylene	276	8.944	8.944	(1.140)	1103444	20.0000	20.3131

Data File: 1AG07006.D

Date: 07-JUL-2013 14:06

Client ID: Instrument: BSMA5973.i

Sample Info: ICIS-1559459 Operator: SCC



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Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07007.D
Lab Smp Id: IC-1559454
Inj Date : 07-JUL-2013 14:31
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559454
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:41 BSMA5973.i Quant Type: ISTD
Cal Date : 07-JUL-2013 14:06 Cal File: 1AG07006.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.677	2.683	(1.000)	2977082	40.0000	
* 7 Acenaphthene-d10	164	3.713	3.714	(1.000)	1646858	40.0000	
* 11 Phenanthrene-d10	188	4.691	4.691	(1.000)	2522675	40.0000	
$ 15 o-Terphenyl	230	4.985	4.985	(1.063)	7689	0.20000	0.1442
* 19 Chrysene-d12	240	6.748	6.748	(1.000)	2398347	40.0000	
* 24 Perylene-d12	264	7.859	7.848	(1.000)	2504795	40.0000	
2 Naphthalene	128	2.688	2.693	(1.004)	13431	0.20000	0.1996(Q)
3 2-Methylnaphthalene	141	3.094	3.099	(1.156)	7399	0.20000	0.1851
4 1-Methylnaphthalene	142	3.152	3.153	(1.178)	9020	0.20000	0.1508
5 1,1'-Biphenyl	154	3.377	3.377	(1.261)	12008	0.20000	0.2130
6 Acenaphthylene	152	3.623	3.628	(0.976)	14614	0.20000	0.3285
8 Acenaphthene	154	3.729	3.735	(1.004)	7218	0.20000	0.3752
9 Dibenzofuran	168	3.836	3.836	(1.033)	12516	0.20000	0.1977
10 Fluorene	166	4.050	4.055	(1.091)	9764	0.20000	0.2333
12 Phenanthrene	178	4.702	4.707	(1.002)	14233	0.20000	0.1411
13 Anthracene	178	4.739	4.739	(1.010)	13153	0.20000	0.2144
16 Fluoranthene	202	5.583	5.589	(1.190)	15699	0.20000	0.2348
17 Pyrene	202	5.754	5.760	(0.853)	15341	0.20000	0.1921
18 Benzo(a)anthracene	228	6.737	6.732	(0.998)	23798	0.20000	0.2011
20 Chrysene	228	6.758	6.764	(1.002)	13310	0.20000	0.2048
21 Benzo(b)fluoranthene	252	7.565	7.565	(0.963)	13885	0.20000	0.1947(H)
22 Benzo(k)fluoranthene	252	7.581	7.587	(0.965)	17087	0.20000	0.3628
23 Benzo(a)pyrene	252	7.800	7.795	(0.993)	13378	0.20000	0.2028
25 Indeno(1,2,3-cd)pyrene	276	8.687	8.692	(1.105)	10876	0.20000	0.1891(H)
26 Dibenzo(a,h)anthracene	278	8.719	8.719	(1.109)	10692	0.20000	0.1966
27 Benzo(g,h,i)perylene	276	8.938	8.944	(1.137)	10728	0.20000	0.1967

QC Flag Legend

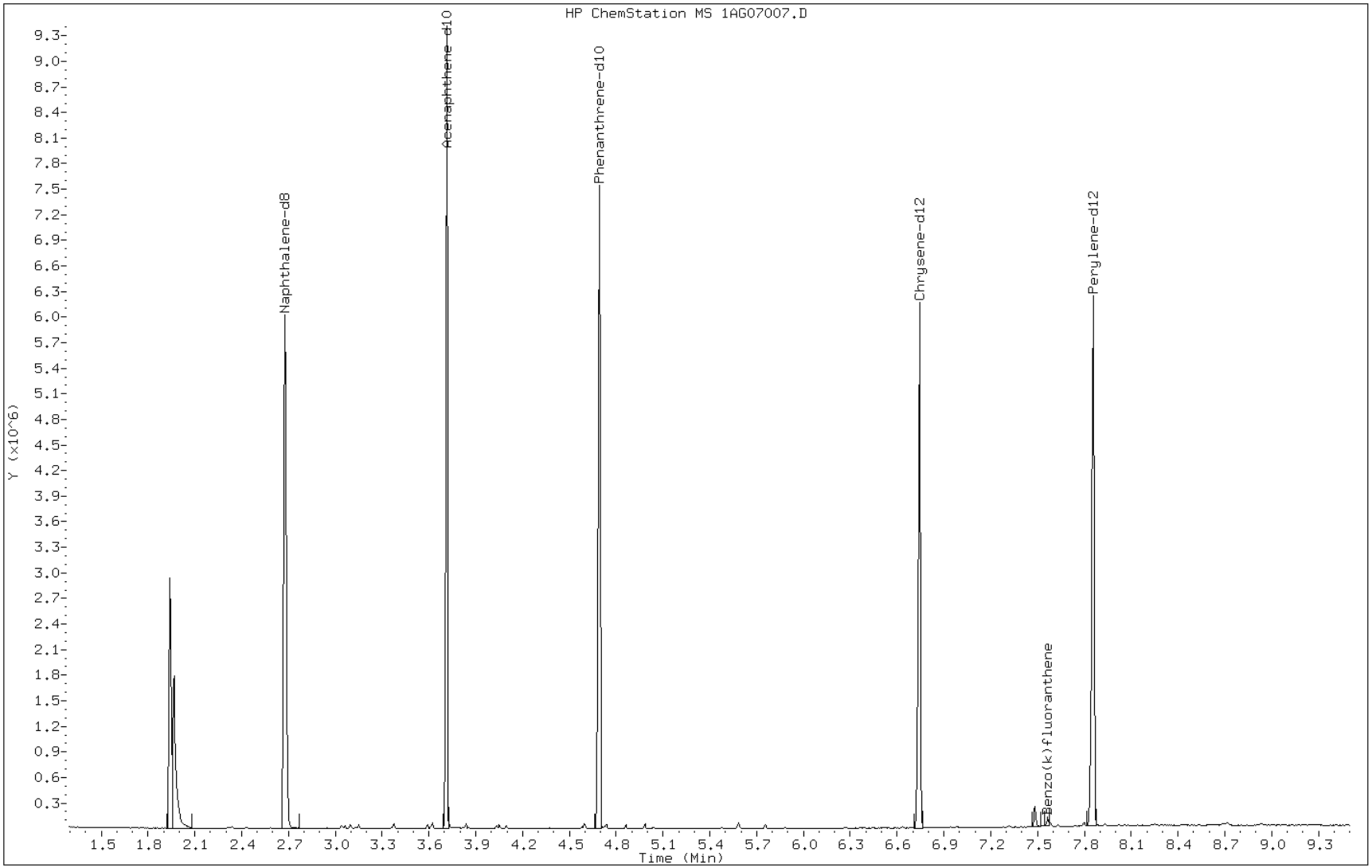
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: 1AG07007.D

Date: 07-JUL-2013 14:31

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559454 Operator: SCC



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Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07008.D
Lab Smp Id: IC-1559455
Inj Date : 07-JUL-2013 14:46
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559455
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:41 BSMA5973.i Quant Type: ISTD
Cal Date : 07-JUL-2013 14:31 Cal File: 1AG07007.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.675	2.683	(1.000)	2683865	40.0000	
* 7 Acenaphthene-d10	164	3.711	3.714	(1.000)	1485793	40.0000	
* 11 Phenanthrene-d10	188	4.689	4.691	(1.000)	2224524	40.0000	
$ 15 o-Terphenyl	230	4.983	4.985	(1.063)	34857	1.00000	0.9768
* 19 Chrysene-d12	240	6.740	6.748	(1.000)	2089618	40.0000	
* 24 Perylene-d12	264	7.846	7.848	(1.000)	2243535	40.0000	
2 Naphthalene	128	2.691	2.693	(1.006)	61877	1.00000	1.0204
3 2-Methylnaphthalene	141	3.097	3.099	(1.158)	36454	1.00000	1.0133
4 1-Methylnaphthalene	142	3.150	3.153	(1.178)	42586	1.00000	0.9943
5 1,1'-Biphenyl	154	3.375	3.377	(1.262)	52120	1.00000	1.0259
6 Acenaphthylene	152	3.621	3.628	(0.976)	65620	1.00000	1.0709
8 Acenaphthene	154	3.727	3.735	(1.004)	35129	1.00000	1.1412
9 Dibenzofuran	168	3.834	3.836	(1.033)	56937	1.00000	0.9972
10 Fluorene	166	4.053	4.055	(1.092)	46393	1.00000	1.0158
12 Phenanthrene	178	4.700	4.707	(1.002)	57325	1.00000	0.9550
13 Anthracene	178	4.737	4.739	(1.010)	60878	1.00000	1.0177
16 Fluoranthene	202	5.581	5.589	(1.190)	68785	1.00000	1.0092
17 Pyrene	202	5.752	5.760	(0.853)	71019	1.00000	1.0208
18 Benzo(a)anthracene	228	6.730	6.732	(0.998)	71737	1.00000	0.9758
20 Chrysene	228	6.756	6.764	(1.002)	56871	1.00000	1.0046
21 Benzo(b)fluoranthene	252	7.558	7.565	(0.963)	59453	1.00000	0.9309
22 Benzo(k)fluoranthene	252	7.574	7.587	(0.965)	71340	1.00000	1.1913
23 Benzo(a)pyrene	252	7.787	7.795	(0.993)	58766	1.00000	0.9949
25 Indeno(1,2,3-cd)pyrene	276	8.674	8.692	(1.106)	49064	1.00000	0.9527(M)
26 Dibenzo(a,h)anthracene	278	8.701	8.719	(1.109)	49514	1.00000	1.0168
27 Benzo(g,h,i)perylene	276	8.920	8.944	(1.137)	49166	1.00000	1.0069

QC Flag Legend

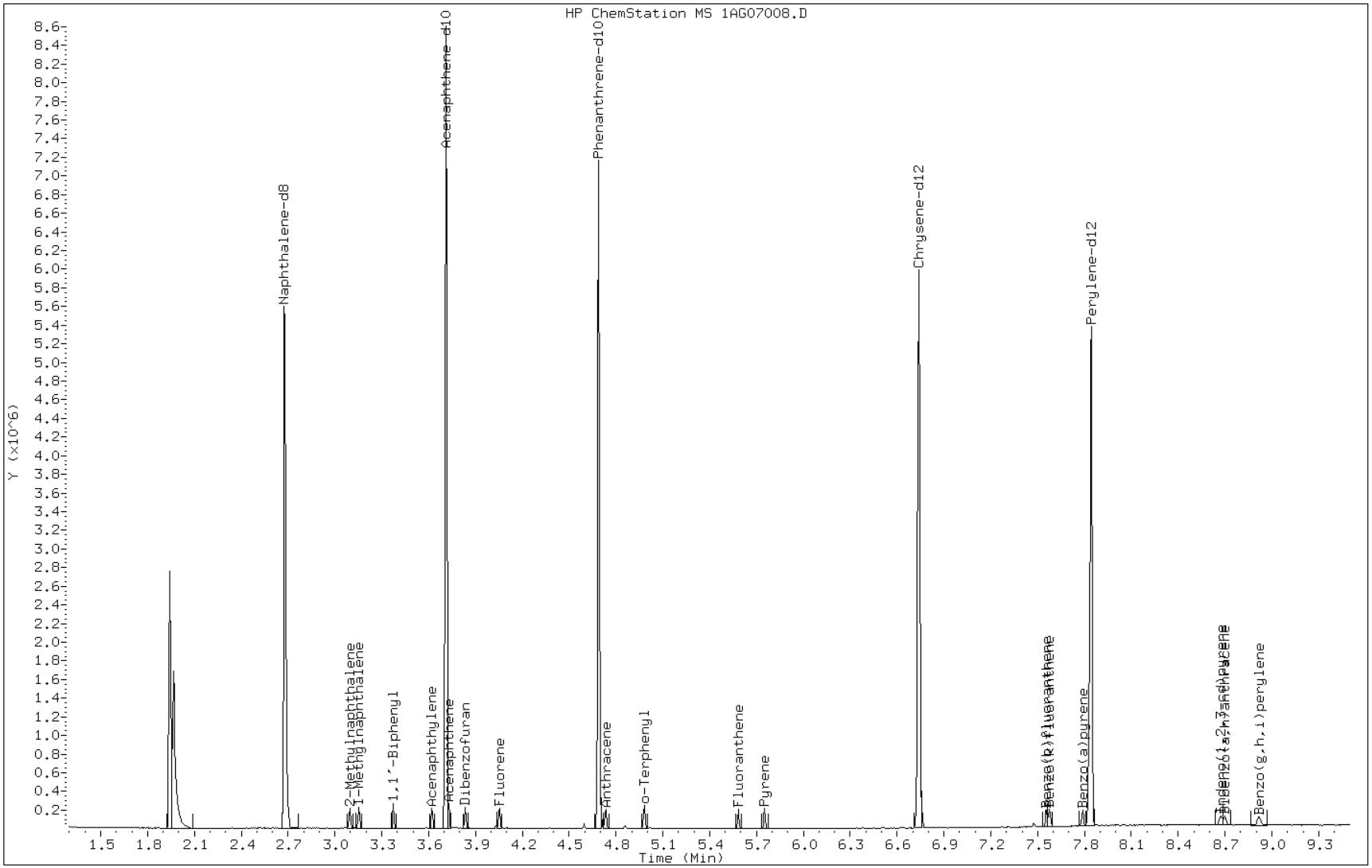
M - Compound response manually integrated.

Data File: 1AG07008.D

Date: 07-JUL-2013 14:46

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559455 Operator: SCC



Manual Integration Report

Data File: 1AG07008.D
Inj. Date and Time: 07-JUL-2013 14:46
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

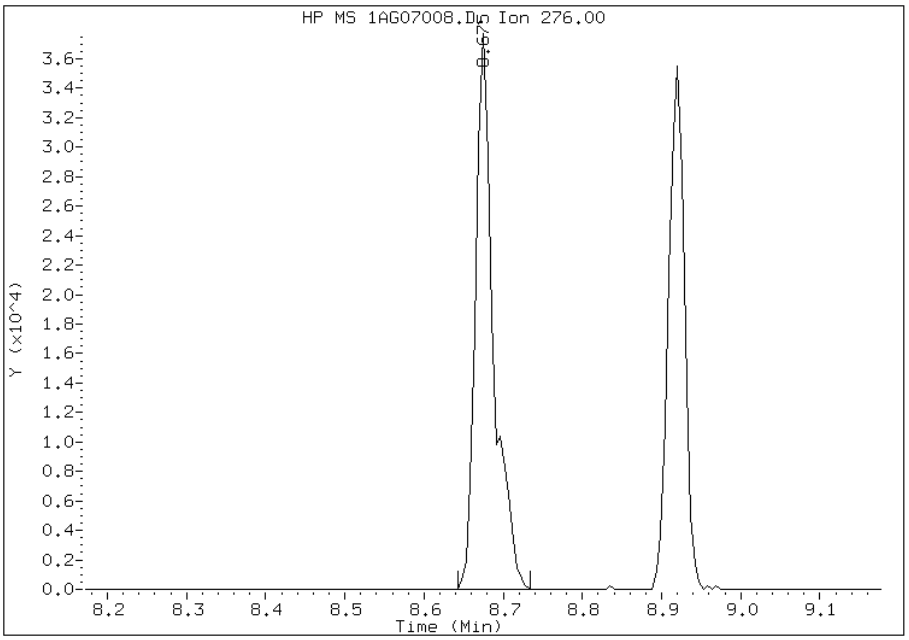
Processing Integration Results

RT: 8.67

Response: 58994

Amount: 1

Conc: 1



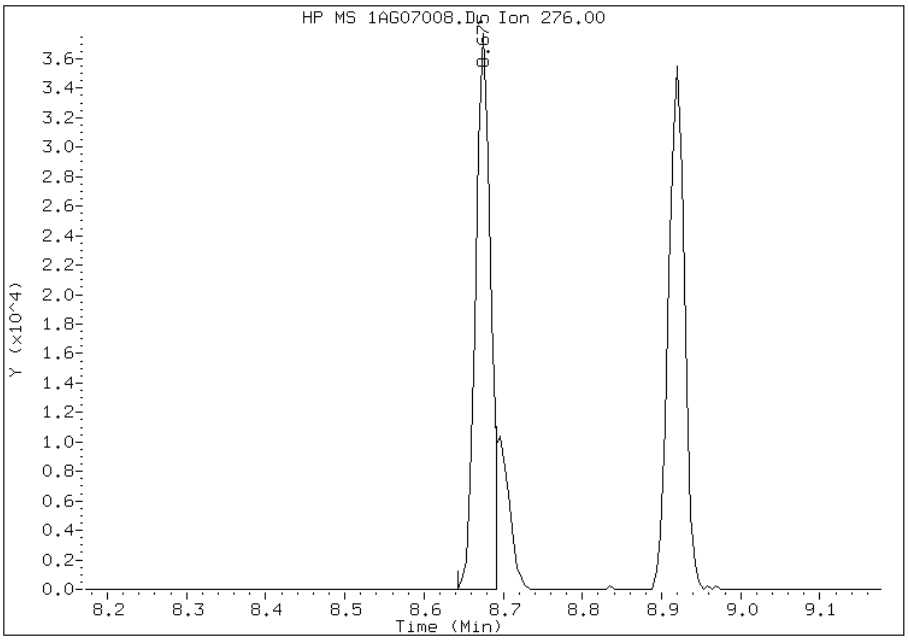
Manual Integration Results

RT: 8.67

Response: 49064

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 11:40
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07009.D
Lab Smp Id: IC-1559457
Inj Date : 07-JUL-2013 15:01
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559457
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:41 BSMA5973.i Quant Type: ISTD
Cal Date : 07-JUL-2013 14:46 Cal File: 1AG07008.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

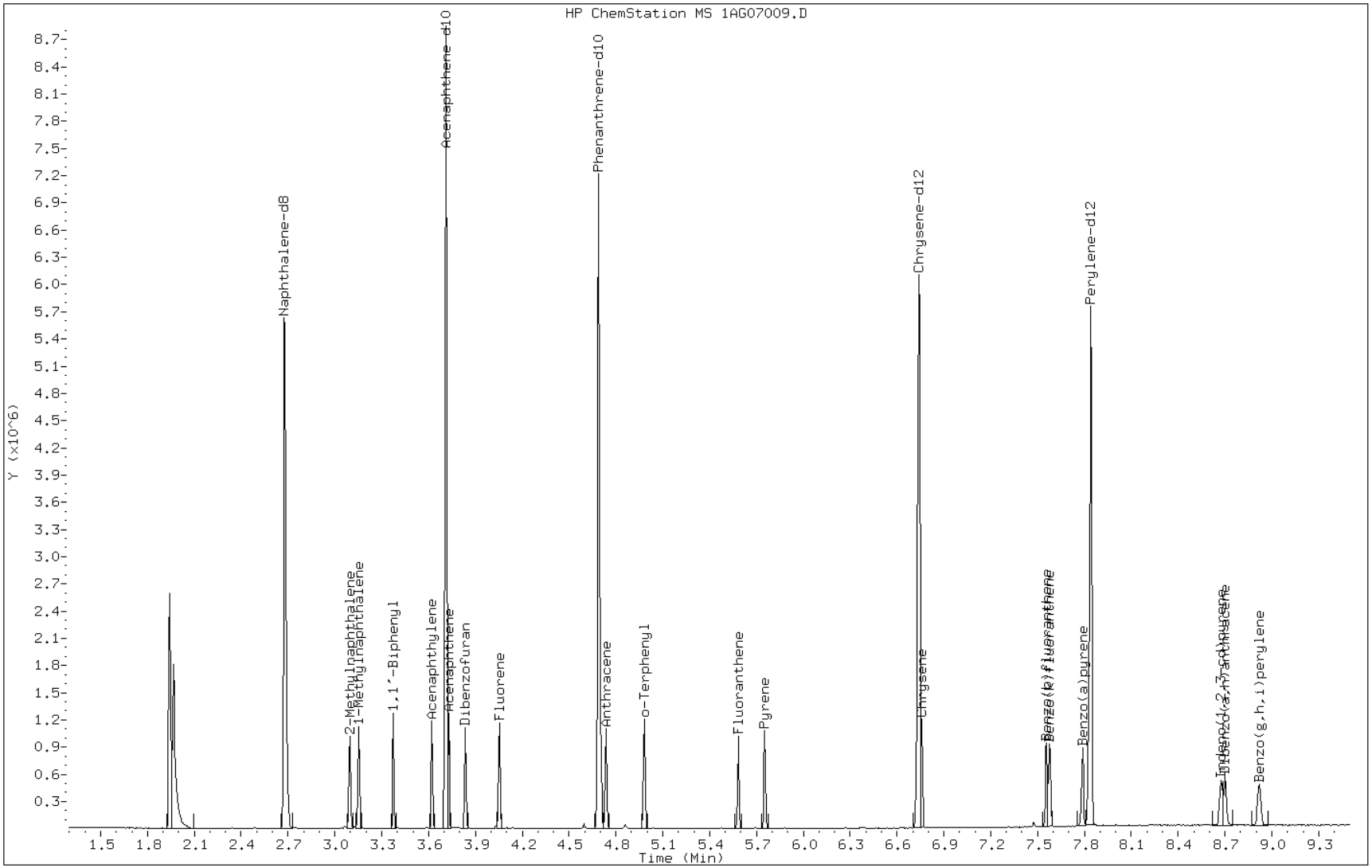
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.675	2.683	(1.000)	2766041	40.0000	
* 7 Acenaphthene-d10	164	3.712	3.714	(1.000)	1529455	40.0000	
* 11 Phenanthrene-d10	188	4.689	4.691	(1.000)	2372049	40.0000	
$ 15 o-Terphenyl	230	4.983	4.985	(1.063)	179250	5.00000	4.9372
* 19 Chrysene-d12	240	6.746	6.748	(1.000)	2241595	40.0000	
* 24 Perylene-d12	264	7.841	7.848	(1.000)	2444516	40.0000	
2 Naphthalene	128	2.691	2.693	(1.006)	301095	5.00000	4.8178
3 2-Methylnaphthalene	141	3.097	3.099	(1.158)	176549	5.00000	4.7977
4 1-Methylnaphthalene	142	3.151	3.153	(1.178)	211021	5.00000	4.9918
5 1,1'-Biphenyl	154	3.375	3.377	(1.262)	253396	5.00000	4.8397
6 Acenaphthylene	152	3.621	3.628	(0.976)	332425	5.00000	4.7448
8 Acenaphthene	154	3.728	3.735	(1.004)	173599	5.00000	4.7400
9 Dibenzofuran	168	3.835	3.836	(1.033)	284635	5.00000	4.8428
10 Fluorene	166	4.054	4.055	(1.092)	239103	5.00000	4.8989
12 Phenanthrene	178	4.700	4.707	(1.002)	290573	5.00000	4.8695
13 Anthracene	178	4.737	4.739	(1.010)	319342	5.00000	4.9413
16 Fluoranthene	202	5.581	5.589	(1.190)	365106	5.00000	4.9023
17 Pyrene	202	5.752	5.760	(0.853)	367477	5.00000	4.9243
18 Benzo(a)anthracene	228	6.730	6.732	(0.998)	341097	5.00000	4.7156
20 Chrysene	228	6.757	6.764	(1.002)	297114	5.00000	4.8928
21 Benzo(b)fluoranthene	252	7.558	7.565	(0.964)	372570	5.00000	5.3540
22 Benzo(k)fluoranthene	252	7.574	7.587	(0.966)	313390	5.00000	4.4202
23 Benzo(a)pyrene	252	7.788	7.795	(0.993)	307843	5.00000	4.7836
25 Indeno(1,2,3-cd)pyrene	276	8.675	8.692	(1.106)	262402	5.00000	4.6763
26 Dibenzo(a,h)anthracene	278	8.701	8.719	(1.110)	247039	5.00000	4.6563
27 Benzo(g,h,i)perylene	276	8.920	8.944	(1.138)	249756	5.00000	4.6946

Data File: 1AG07009.D

Date: 07-JUL-2013 15:01

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559457 Operator: SCC



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Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07010.D
Lab Smp Id: IC-1559458
Inj Date : 07-JUL-2013 15:16
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559458
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:41 BSMA5973.i Quant Type: ISTD
Cal Date : 07-JUL-2013 15:01 Cal File: 1AG07009.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

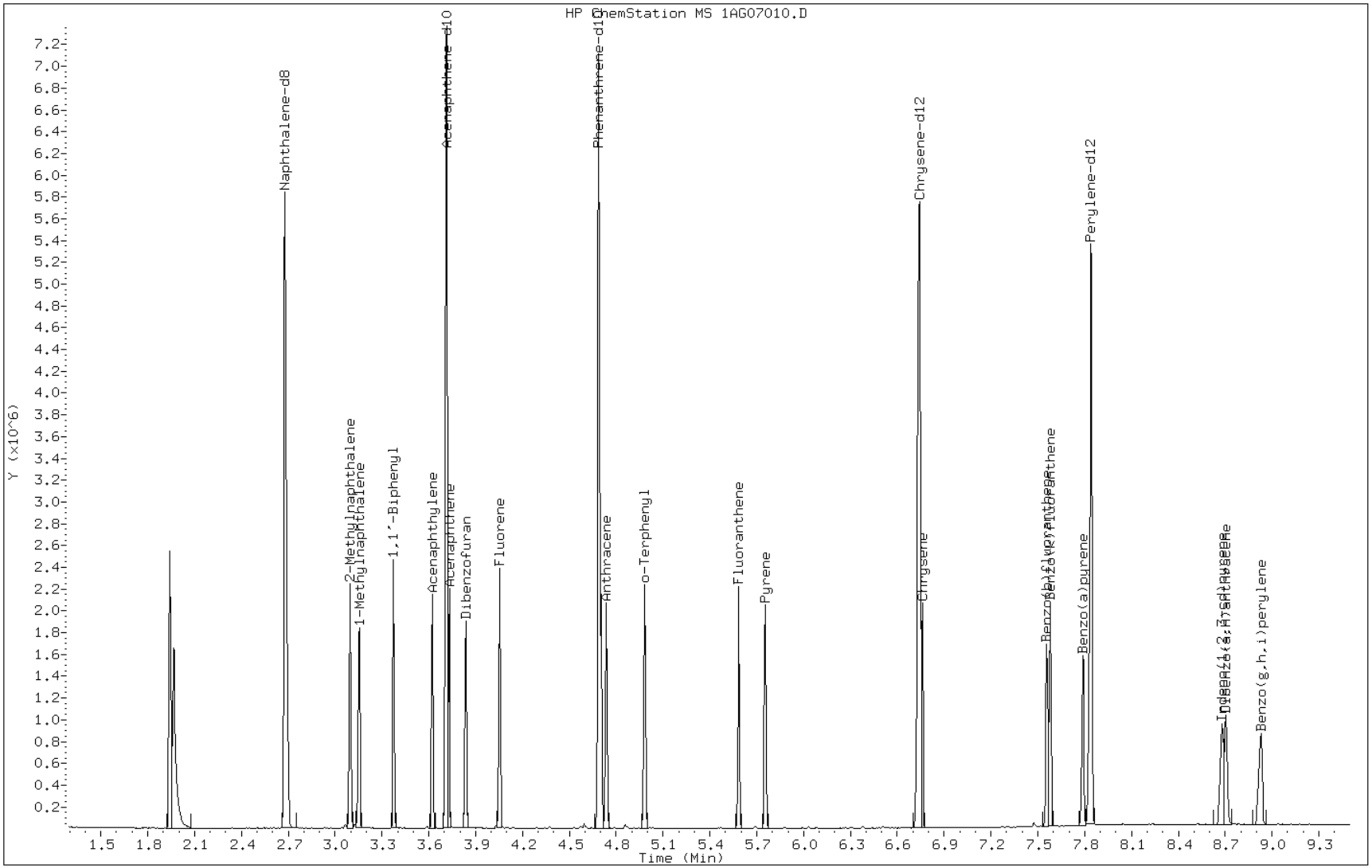
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.679	2.683	(1.000)	2628466	40.0000	
* 7 Acenaphthene-d10	164	3.716	3.714	(1.000)	1427220	40.0000	
* 11 Phenanthrene-d10	188	4.688	4.691	(1.000)	2229096	40.0000	
$ 15 o-Terphenyl	230	4.982	4.985	(1.063)	344702	10.0000	10.1884
* 19 Chrysene-d12	240	6.745	6.748	(1.000)	2052356	40.0000	
* 24 Perylene-d12	264	7.845	7.848	(1.000)	2225417	40.0000	
2 Naphthalene	128	2.690	2.693	(1.004)	605351	10.0000	10.1933
3 2-Methylnaphthalene	141	3.096	3.099	(1.155)	357594	10.0000	10.3360
4 1-Methylnaphthalene	142	3.155	3.153	(1.177)	402937	10.0000	10.1520
5 1,1'-Biphenyl	154	3.374	3.377	(1.259)	508614	10.0000	10.2227
6 Acenaphthylene	152	3.625	3.628	(0.976)	653627	10.0000	9.9351
8 Acenaphthene	154	3.732	3.735	(1.004)	337901	10.0000	9.7424
9 Dibenzofuran	168	3.838	3.836	(1.033)	563427	10.0000	10.2728
10 Fluorene	166	4.052	4.055	(1.091)	458164	10.0000	10.0435
12 Phenanthrene	178	4.704	4.707	(1.003)	571628	10.0000	10.2984
13 Anthracene	178	4.736	4.739	(1.010)	604719	10.0000	10.0222
16 Fluoranthene	202	5.585	5.589	(1.191)	707750	10.0000	10.1744
17 Pyrene	202	5.756	5.760	(0.853)	705318	10.0000	10.3230
18 Benzo(a)anthracene	228	6.729	6.732	(0.998)	686400	10.0000	10.5007
20 Chrysene	228	6.761	6.764	(1.002)	560406	10.0000	10.0796
21 Benzo(b)fluoranthene	252	7.557	7.565	(0.963)	639030	10.0000	10.0872
22 Benzo(k)fluoranthene	252	7.578	7.587	(0.966)	684827	10.0000	10.5650
23 Benzo(a)pyrene	252	7.792	7.795	(0.993)	597414	10.0000	10.1973
25 Indeno(1,2,3-cd)pyrene	276	8.678	8.692	(1.106)	525835	10.0000	10.2937
26 Dibenzo(a,h)anthracene	278	8.705	8.719	(1.110)	484702	10.0000	10.0354
27 Benzo(g,h,i)perylene	276	8.930	8.944	(1.138)	492386	10.0000	10.1664

Data File: 1AG07010.D

Date: 07-JUL-2013 15:16

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1559458 Operator: SCC



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Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07011.D
Lab Smp Id: IC-1559464
Inj Date : 07-JUL-2013 15:31
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559464
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:41 BSMA5973.i Quant Type: ISTD
Cal Date : 07-JUL-2013 15:16 Cal File: 1AG07010.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.678	2.683	(1.000)	2824617	40.0000	
* 7 Acenaphthene-d10	164	3.714	3.714	(1.000)	1510433	40.0000	
* 11 Phenanthrene-d10	188	4.692	4.691	(1.000)	2426301	40.0000	
$ 15 o-Terphenyl	230	4.986	4.985	(1.063)	1081834	30.0000	29.7569
* 19 Chrysene-d12	240	6.748	6.748	(1.000)	2161929	40.0000	
* 24 Perylene-d12	264	7.849	7.848	(1.000)	2379408	40.0000	
2 Naphthalene	128	2.694	2.693	(1.006)	1927893	30.0000	30.2088
3 2-Methylnaphthalene	141	3.100	3.099	(1.158)	1073707	30.0000	29.9167
4 1-Methylnaphthalene	142	3.153	3.153	(1.178)	1242182	30.0000	29.9921
5 1,1'-Biphenyl	154	3.378	3.377	(1.261)	1587355	30.0000	29.6890
6 Acenaphthylene	152	3.623	3.628	(0.976)	2033091	30.0000	29.9538
8 Acenaphthene	154	3.730	3.735	(1.004)	1087780	30.0000	30.1050
9 Dibenzofuran	168	3.837	3.836	(1.033)	1759761	30.0000	30.3178
10 Fluorene	166	4.056	4.055	(1.092)	1432257	30.0000	29.9803
12 Phenanthrene	178	4.708	4.707	(1.003)	1773307	30.0000	29.6079
13 Anthracene	178	4.740	4.739	(1.010)	1908133	30.0000	30.0007
16 Fluoranthene	202	5.589	5.589	(1.191)	2211610	30.0000	30.2244
17 Pyrene	202	5.760	5.760	(0.854)	2186947	30.0000	30.3859
18 Benzo(a)anthracene	228	6.732	6.732	(0.998)	2087536	30.0000	30.5317
20 Chrysene	228	6.770	6.764	(1.003)	1740672	30.0000	29.7215
21 Benzo(b)fluoranthene	252	7.571	7.565	(0.965)	2011962	30.0000	29.7040
22 Benzo(k)fluoranthene	252	7.593	7.587	(0.967)	2051012	30.0000	30.6158
23 Benzo(a)pyrene	252	7.801	7.795	(0.994)	1896070	30.0000	30.2697
25 Indeno(1,2,3-cd)pyrene	276	8.698	8.692	(1.108)	1674354	30.0000	30.6558
26 Dibenzo(a,h)anthracene	278	8.730	8.719	(1.112)	1565377	30.0000	30.3127
27 Benzo(g,h,i)perylene	276	8.955	8.944	(1.141)	1573264	30.0000	30.3814

Data File: 1AG07011.D

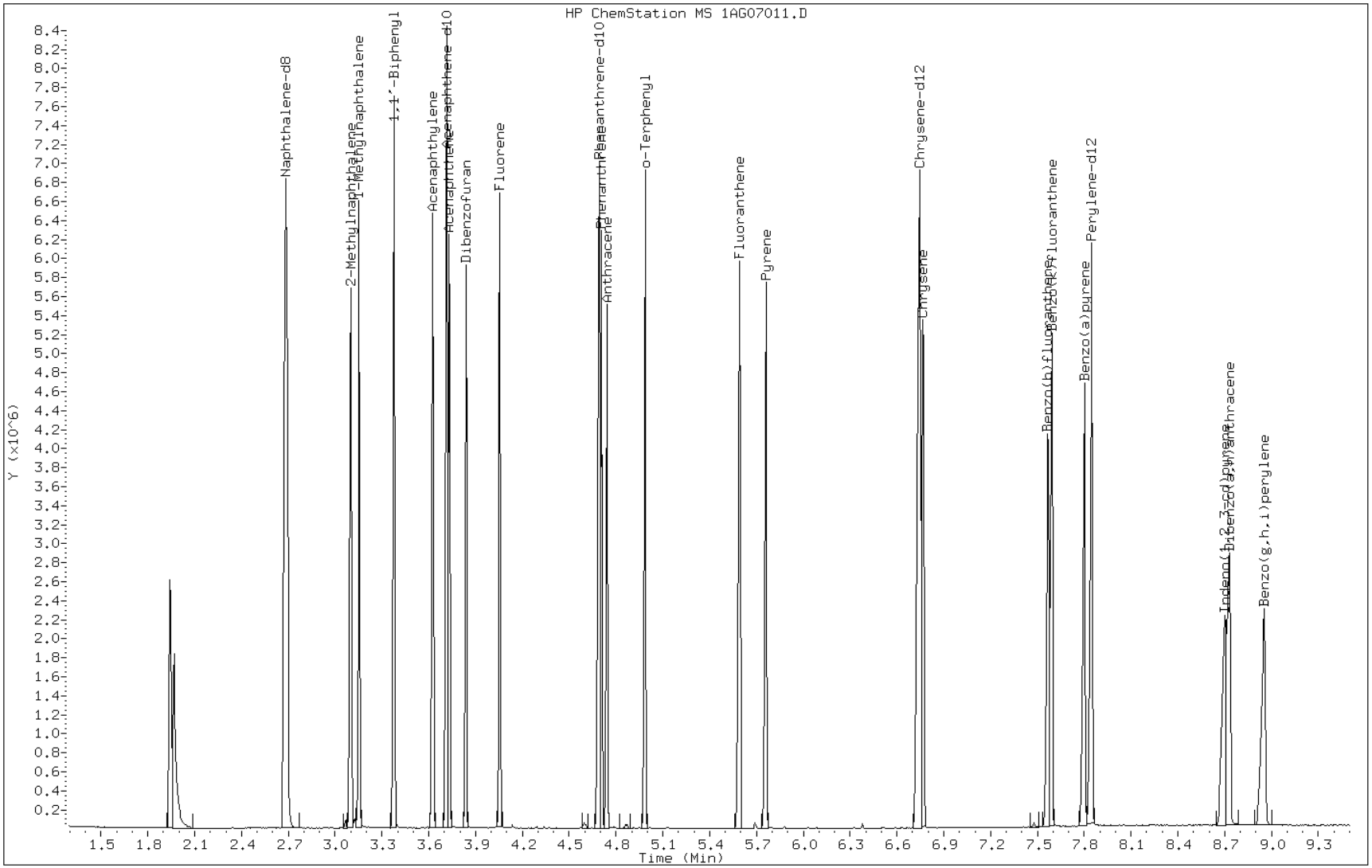
Date: 07-JUL-2013 15:31

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1559464

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07012.D
Lab Smp Id: IC-1559465
Inj Date : 07-JUL-2013 15:46
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1559465
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:41 BSMA5973.i Quant Type: ISTD
Cal Date : 07-JUL-2013 15:31 Cal File: 1AG07011.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.683	2.683	(1.000)	2548509	40.0000	
* 7 Acenaphthene-d10	164	3.714	3.714	(1.000)	1323362	40.0000	
* 11 Phenanthrene-d10	188	4.691	4.691	(1.000)	2105253	40.0000	
$ 15 o-Terphenyl	230	4.985	4.985	(1.063)	1563245	50.0000	50.0568(A)
* 19 Chrysene-d12	240	6.748	6.748	(1.000)	1888034	40.0000	
* 24 Perylene-d12	264	7.843	7.848	(1.000)	2055565	40.0000	
2 Naphthalene	128	2.693	2.693	(1.004)	2852835	50.0000	49.5451
3 2-Methylnaphthalene	141	3.099	3.099	(1.155)	1567778	50.0000	50.0316(A)
4 1-Methylnaphthalene	142	3.158	3.153	(1.177)	1822273	50.0000	50.0120(A)
5 1,1'-Biphenyl	154	3.377	3.377	(1.259)	2249022	50.0000	46.6217
6 Acenaphthylene	152	3.628	3.628	(0.977)	2885030	50.0000	49.9918
8 Acenaphthene	154	3.735	3.735	(1.006)	1543480	50.0000	49.9469
9 Dibenzofuran	168	3.842	3.836	(1.035)	2501371	50.0000	49.1864
10 Fluorene	166	4.056	4.055	(1.092)	2066554	50.0000	50.0021(A)
12 Phenanthrene	178	4.707	4.707	(1.003)	2590983	50.0000	50.0866(A)
13 Anthracene	178	4.745	4.739	(1.011)	2676534	50.0000	49.9984
16 Fluoranthene	202	5.594	5.589	(1.192)	3071278	50.0000	49.9572
17 Pyrene	202	5.765	5.760	(0.854)	3087188	50.0000	49.1166
18 Benzo(a)anthracene	228	6.737	6.732	(0.998)	2983331	50.0000	50.0356(A)
20 Chrysene	228	6.769	6.764	(1.003)	2548308	50.0000	49.8239
21 Benzo(b)fluoranthene	252	7.571	7.565	(0.965)	3015708	50.0000	51.5374(A)
22 Benzo(k)fluoranthene	252	7.597	7.587	(0.969)	2787317	50.0000	49.8623(H)
23 Benzo(a)pyrene	252	7.806	7.795	(0.995)	2737842	50.0000	50.5941(A)
25 Indeno(1,2,3-cd)pyrene	276	8.703	8.692	(1.110)	2595380	50.0000	55.0053(A)
26 Dibenzo(a,h)anthracene	278	8.735	8.719	(1.114)	2336050	50.0000	52.3631(A)
27 Benzo(g,h,i)perylene	276	8.965	8.944	(1.143)	2292969	50.0000	51.2557(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: 1AG07012.D

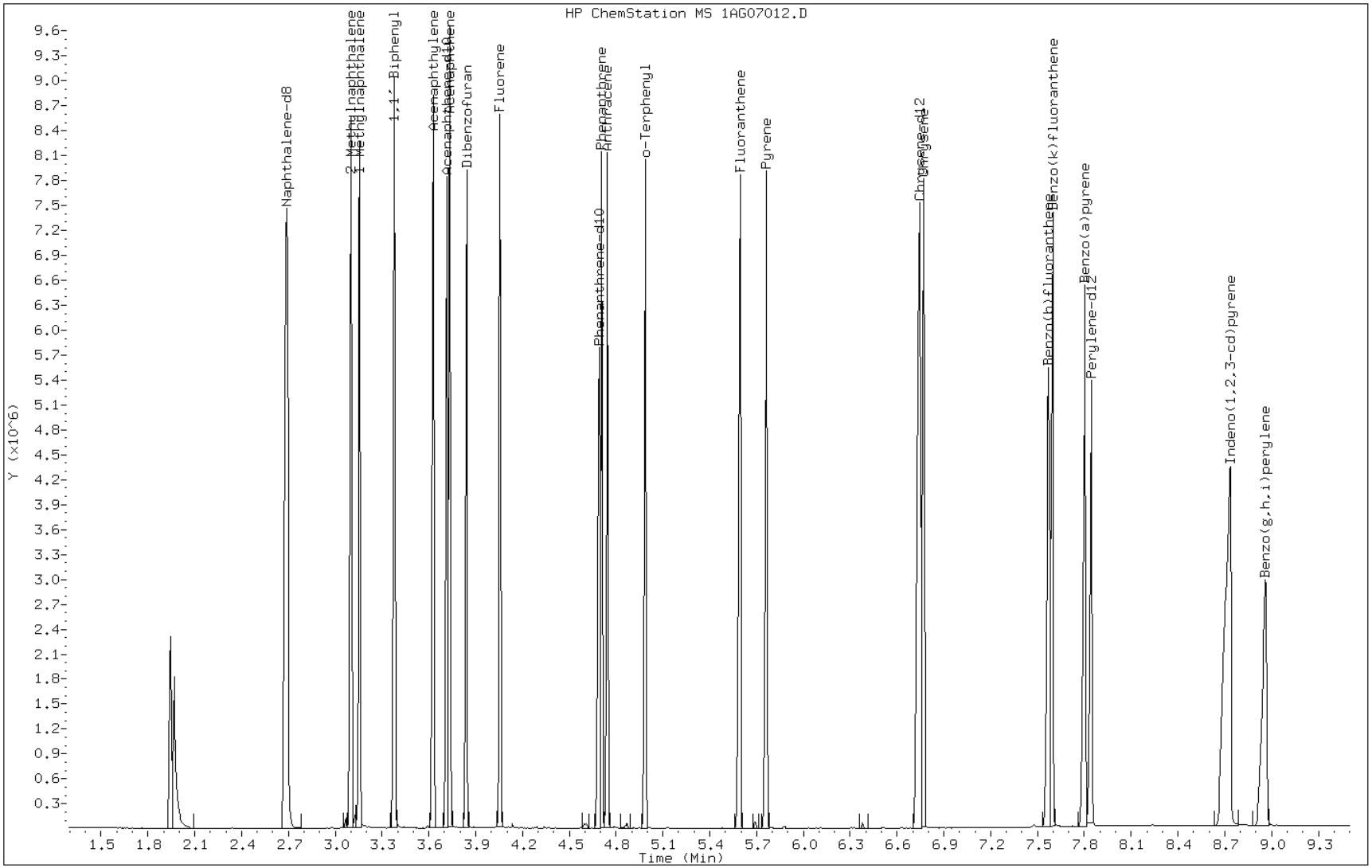
Date: 07-JUL-2013 15:46

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1559465

Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Lab Sample ID: ICV 660-138314/11 Calibration Date: 06/11/2013 16:33

Instrument ID: BSMA5973 Calib Start Date: 06/11/2013 14:27

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 06/11/2013 16:13

Lab File ID: 1AF11011.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.044	1.064	0.0000	20400	20000	1.9	35.0
2-Methylnaphthalene	Qua	0.6256	0.6358	0.0000	22100	20000	10.6	35.0
1-Methylnaphthalene	Qua	0.7367	0.7056	0.0000	21300	20000	6.4	35.0
Acenaphthylene	Qua	2.304	2.306	0.0000	21800	20000	9.2	35.0
Acenaphthene	Qua	1.210	1.194	0.0000	21800	20000	8.8	35.0
Fluorene	Qua	1.605	1.628	0.0000	22200	20000	11.1	35.0
Phenanthrene	Qua	1.233	1.198	0.0000	21500	20000	7.6	35.0
Anthracene	Qua	1.306	1.291	0.0000	21500	20000	7.3	35.0
Fluoranthene	Qua	1.482	1.470	0.0000	21200	20000	6.2	35.0
Pyrene	Ave	1.613	1.695	0.0000	21000	20000	5.1	35.0
Benzo[a]anthracene	Lin2	1.464	1.451	0.0000	21500	20000	7.4	35.0
Chrysene	Ave	1.310	1.379	0.0000	21000	20000	5.2	35.0
Benzo[b]fluoranthene	Ave	1.266	1.332	0.0000	21000	20000	5.2	35.0
Benzo[k]fluoranthene	Qua	1.332	1.320	0.0000	21000	20000	5.1	35.0
Benzo[a]pyrene	Ave	1.183	1.280	0.0000	21600	20000	8.2	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.056	1.109	0.0000	21000	20000	5.0	35.0
Dibenz(a,h)anthracene	Ave	1.047	1.119	0.0000	21400	20000	6.9	35.0
Benzo[g,h,i]perylene	Ave	1.125	1.201	0.0000	21400	20000	6.8	35.0
o-Terphenyl	Qua	0.7217	0.6770	0.0000	20900	20000	4.5	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\1AF11011.D
Lab Smp Id: ICV-1558374
Inj Date : 11-JUN-2013 16:33
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1558374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\a-bFASTPAHi-m.m
Meth Date : 12-Jun-2013 15:30 BSMA5973.i Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	2.704	2.703	(1.000)	4907724	40.0000	
* 7 Acenaphthene-d10	164	3.740	3.740	(1.000)	2403198	40.0000	
* 11 Phenanthrene-d10	188	4.712	4.712	(1.000)	3840938	40.0000	
$ 15 o-Terphenyl	230	5.017	5.017	(1.065)	1300167	20.9006	20.9005
* 19 Chrysene-d12	240	6.764	6.763	(1.000)	3418126	40.0000	
* 24 Perylene-d12	264	7.859	7.859	(1.000)	3927398	40.0000	
2 Naphthalene	128	2.714	2.714	(1.004)	2611765	20.3822	20.3822
3 2-Methylnaphthalene	141	3.120	3.120	(1.154)	1560271	22.1228	22.1227
4 1-Methylnaphthalene	142	3.179	3.179	(1.176)	1731459	21.2871	21.2870
6 Acenaphthylene	152	3.649	3.649	(0.976)	2770541	21.8371	21.8370
8 Acenaphthene	154	3.756	3.756	(1.004)	1434494	21.7538	21.7538
10 Fluorene	166	4.082	4.082	(1.091)	1956714	22.2291	22.2290
12 Phenanthrene	178	4.728	4.728	(1.003)	2300567	21.5160	21.5160
13 Anthracene	178	4.766	4.766	(1.011)	2479729	21.4632	21.4631
16 Fluoranthene	202	5.610	5.610	(1.190)	2823766	21.2446	21.2446
17 Pyrene	202	5.776	5.775	(0.854)	2897144	21.0232	21.0232
18 Benzo(a)anthracene	228	6.748	6.747	(0.998)	2479696	21.4704	21.4703

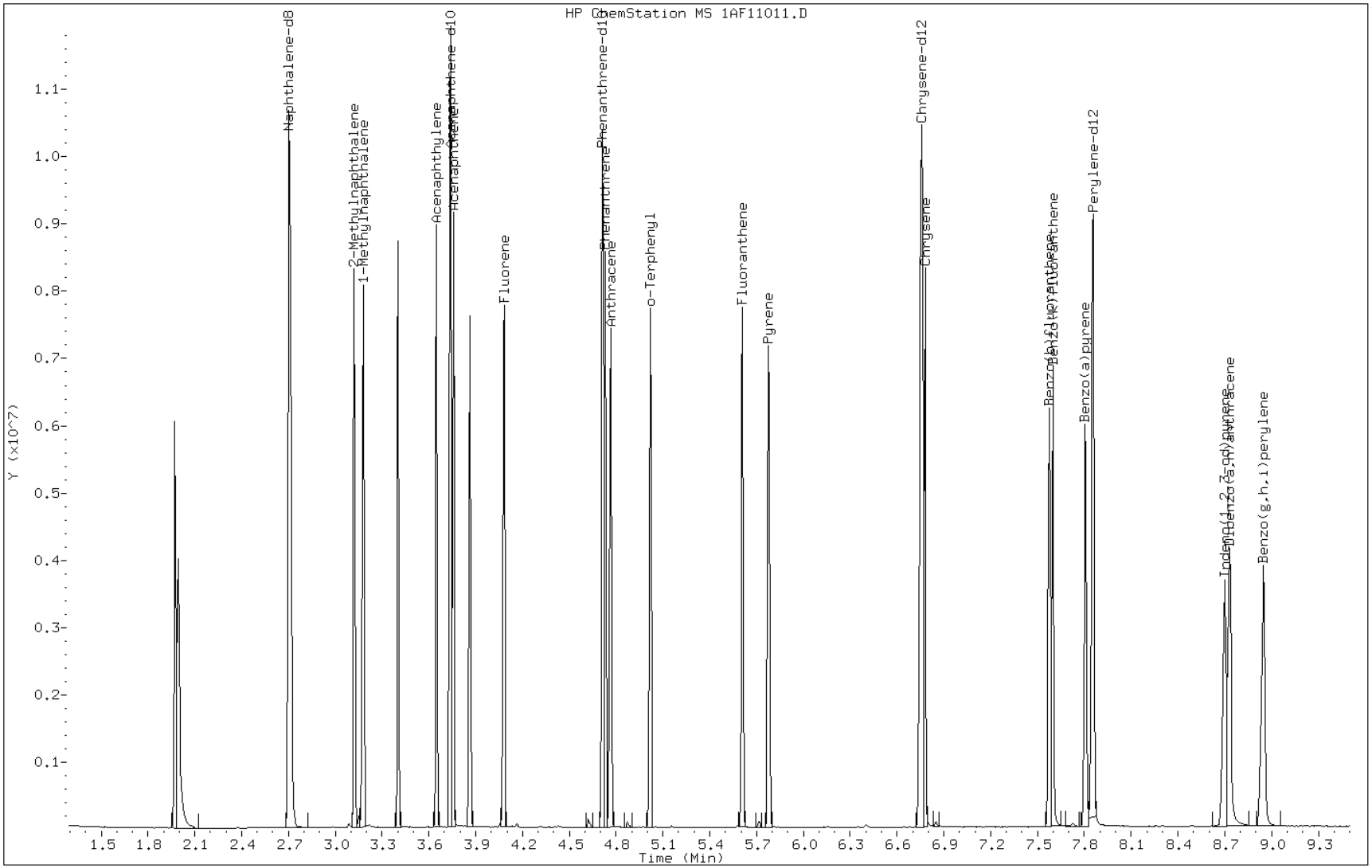
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
20 Chrysene	228	6.780	6.780	(1.002)	2356673	21.0493	21.0493
21 Benzo(b)fluoranthene	252	7.576	7.576	(0.964)	2614675	21.0347	21.0346
22 Benzo(k)fluoranthene	252	7.597	7.597	(0.967)	2592884	21.0215	21.0214
23 Benzo(a)pyrene	252	7.806	7.811	(0.993)	2513689	21.6378	21.6377
25 Indeno(1,2,3-cd)pyrene	276	8.703	8.703	(1.107)	2178133	21.0035	21.0034
26 Dibenzo(a,h)anthracene	278	8.730	8.735	(1.111)	2196754	21.3773	21.3773
27 Benzo(g,h,i)perylene	276	8.949	8.954	(1.139)	2359031	21.3625	21.3624

Data File: 1AF11011.D

Date: 11-JUN-2013 16:33

Client ID: Instrument: BSMA5973.i

Sample Info: ICV-1558374 Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Lab Sample ID: CCVIS 660-139030/3 Calibration Date: 07/02/2013 11:29

Instrument ID: BSMA5973 Calib Start Date: 06/11/2013 14:27

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 06/11/2013 16:13

Lab File ID: 1AG02003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.044	0.9030	0.0000	17300	20000	-13.5	20.0
2-Methylnaphthalene	Qua	0.6256	0.5480	0.0000	18300	20000	-8.4	20.0
1-Methylnaphthalene	Qua	0.7367	0.6158	0.0000	17800	20000	-10.8	20.0
Acenaphthylene	Qua	2.304	1.920	0.0000	17100	20000	-14.6	20.0
Acenaphthene	Qua	1.210	1.028	0.0000	17800	20000	-11.0	20.0
Fluorene	Qua	1.605	1.385	0.0000	17900	20000	-10.6	20.0
Phenanthrene	Qua	1.233	1.045	0.0000	18000	20000	-10.0	20.0
Anthracene	Qua	1.306	1.118	0.0000	17800	20000	-10.9	20.0
Fluoranthene	Qua	1.482	1.292	0.0000	18000	20000	-10.0	20.0
Pyrene	Ave	1.613	1.439	0.0000	17900	20000	-10.7	20.0
Benzo[a]anthracene	Lin2	1.464	1.286	0.0000	19000	20000	-4.9	20.0
Chrysene	Ave	1.310	1.123	0.0000	17100	20000	-14.3	20.0
Benzo[b]fluoranthene	Ave	1.266	1.143	0.0000	18100	20000	-9.7	20.0
Benzo[k]fluoranthene	Qua	1.332	1.244	0.0000	19500	20000	-2.3	20.0
Benzo[a]pyrene	Ave	1.183	1.105	0.0000	18700	20000	-6.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.056	1.117	0.0000	21200	20000	5.8	20.0
Dibenz(a,h)anthracene	Ave	1.047	1.025	0.0000	19600	20000	-2.1	20.0
Benzo[g,h,i]perylene	Ave	1.125	1.077	0.0000	19100	20000	-4.3	20.0
o-Terphenyl	Qua	0.7217	0.6261	0.0000	18900	20000	-5.7	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\1AG02003.D
Lab Smp Id: CCVIS-1559459
Inj Date : 02-JUL-2013 11:29
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\a-bFASTPAHi-m.m
Meth Date : 02-Jul-2013 11:39 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.683	2.683	(1.000)	3223741	40.0000	
* 7 Acenaphthene-d10	164	3.719	3.719	(1.000)	1665166	40.0000	
* 11 Phenanthrene-d10	188	4.697	4.697	(1.000)	2688412	40.0000	
$ 15 o-Terphenyl	230	4.996	4.996	(1.064)	841592	20.0000	18.8683
* 19 Chrysene-d12	240	6.748	6.748	(1.000)	2408537	40.0000	
* 24 Perylene-d12	264	7.849	7.849	(1.000)	2656233	40.0000	
2 Naphthalene	128	2.699	2.699	(1.006)	1455510	20.0000	17.2922
3 2-Methylnaphthalene	141	3.105	3.105	(1.157)	883291	20.0000	18.3103
4 1-Methylnaphthalene	142	3.158	3.158	(1.177)	992610	20.0000	17.8367
6 Acenaphthylene	152	3.634	3.634	(0.977)	1598584	20.0000	17.0763
8 Acenaphthene	154	3.741	3.741	(1.006)	856260	20.0000	17.7993
10 Fluorene	166	4.061	4.061	(1.092)	1153229	20.0000	17.8856
12 Phenanthrene	178	4.713	4.713	(1.003)	1404938	20.0000	18.0078
13 Anthracene	178	4.745	4.745	(1.010)	1503238	20.0000	17.8144
16 Fluoranthene	202	5.594	5.594	(1.191)	1736221	20.0000	18.0064
17 Pyrene	202	5.765	5.765	(0.854)	1733455	20.0000	17.8515
18 Benzo(a)anthracene	228	6.738	6.738	(0.998)	1548754	20.0000	19.0198
20 Chrysene	228	6.764	6.764	(1.002)	1352369	20.0000	17.1422
21 Benzo(b)fluoranthene	252	7.571	7.571	(0.965)	1518162	20.0000	18.0582
22 Benzo(k)fluoranthene	252	7.592	7.592	(0.967)	1651660	20.0000	19.5368
23 Benzo(a)pyrene	252	7.801	7.801	(0.994)	1467848	20.0000	18.6819
25 Indeno(1,2,3-cd)pyrene	276	8.698	8.698	(1.108)	1483590	20.0000	21.1523
26 Dibenzo(a,h)anthracene	278	8.725	8.725	(1.112)	1361199	20.0000	19.5853
27 Benzo(g,h,i)perylene	276	8.949	8.949	(1.140)	1429733	20.0000	19.1430

Data File: 1AG02003.D

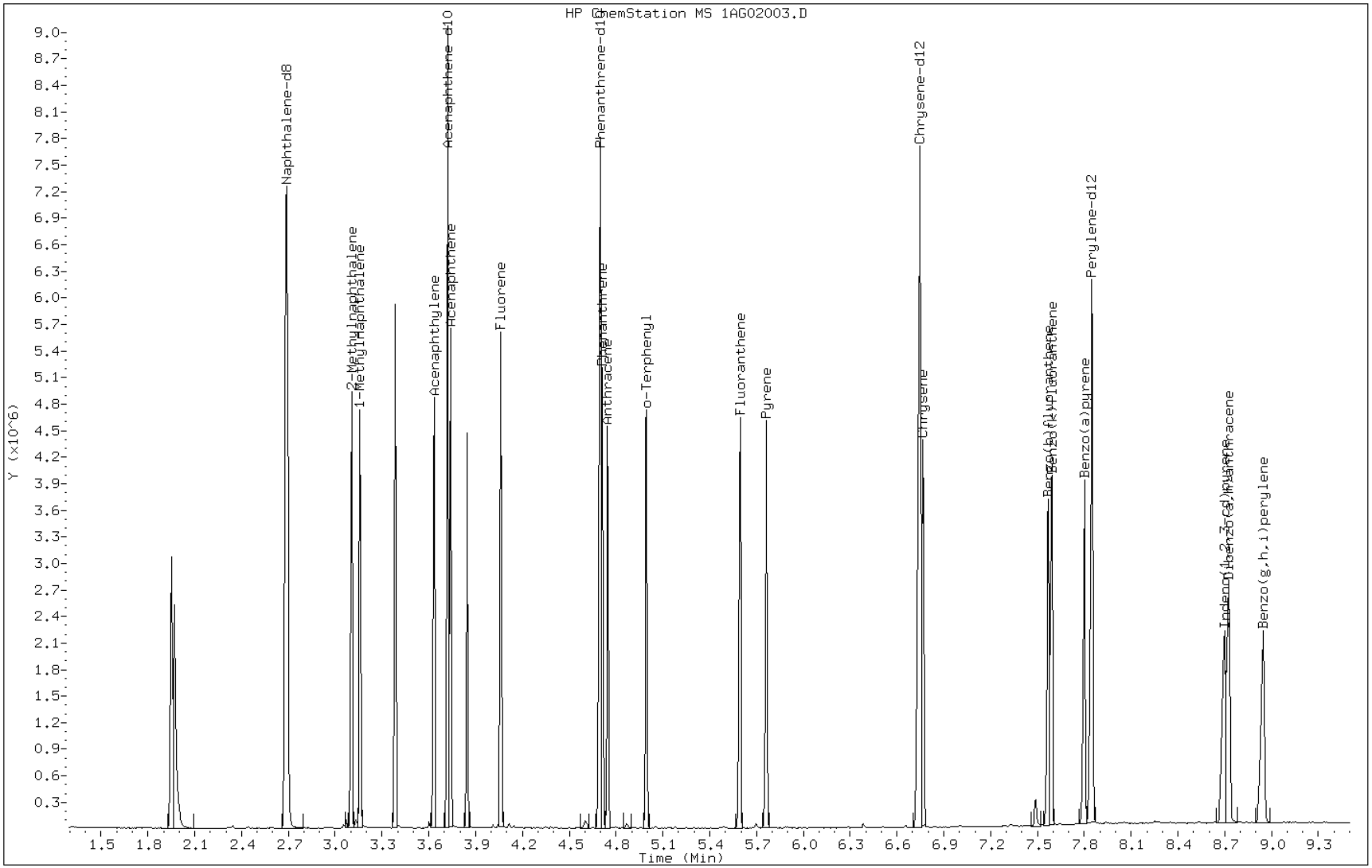
Date: 02-JUL-2013 11:29

Client ID:

Instrument: BSMA5973.i

Sample Info: CCVIS-1559459

Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Lab Sample ID: CCVIS 660-139084/3 Calibration Date: 07/03/2013 11:21

Instrument ID: BSMA5973 Calib Start Date: 06/11/2013 14:27

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 06/11/2013 16:13

Lab File ID: 1AG03003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.044	0.9236	0.0000	17700	20000	-11.6	20.0
2-Methylnaphthalene	Qua	0.6256	0.5351	0.0000	17800	20000	-11.1	20.0
1-Methylnaphthalene	Qua	0.7367	0.6205	0.0000	18000	20000	-9.9	20.0
Acenaphthylene	Qua	2.304	1.926	0.0000	17100	20000	-14.3	20.0
Acenaphthene	Qua	1.210	1.023	0.0000	17700	20000	-11.6	20.0
Fluorene	Qua	1.605	1.351	0.0000	17300	20000	-13.4	20.0
Phenanthrene	Qua	1.233	1.025	0.0000	17600	20000	-12.2	20.0
Anthracene	Qua	1.306	1.105	0.0000	17500	20000	-12.3	20.0
Fluoranthene	Qua	1.482	1.302	0.0000	18200	20000	-9.0	20.0
Pyrene	Ave	1.613	1.416	0.0000	17600	20000	-12.2	20.0
Benzo[a]anthracene	Lin2	1.464	1.320	0.0000	19500	20000	-2.4	20.0
Chrysene	Ave	1.310	1.138	0.0000	17400	20000	-13.2	20.0
Benzo[b]fluoranthene	Ave	1.266	1.172	0.0000	18500	20000	-7.4	20.0
Benzo[k]fluoranthene	Qua	1.332	1.104	0.0000	16900	20000	-15.4	20.0
Benzo[a]pyrene	Ave	1.183	1.069	0.0000	18100	20000	-9.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.056	1.066	0.0000	20200	20000	0.9	20.0
Dibenz(a,h)anthracene	Ave	1.047	0.9716	0.0000	18600	20000	-7.2	20.0
Benzo[g,h,i]perylene	Ave	1.125	1.012	0.0000	18000	20000	-10.0	20.0
o-Terphenyl	Qua	0.7217	0.6590	0.0000	20200	20000	0.9	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03003.D
Lab Smp Id: CCVIS-1559459
Inj Date : 03-JUL-2013 11:21
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1559459
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

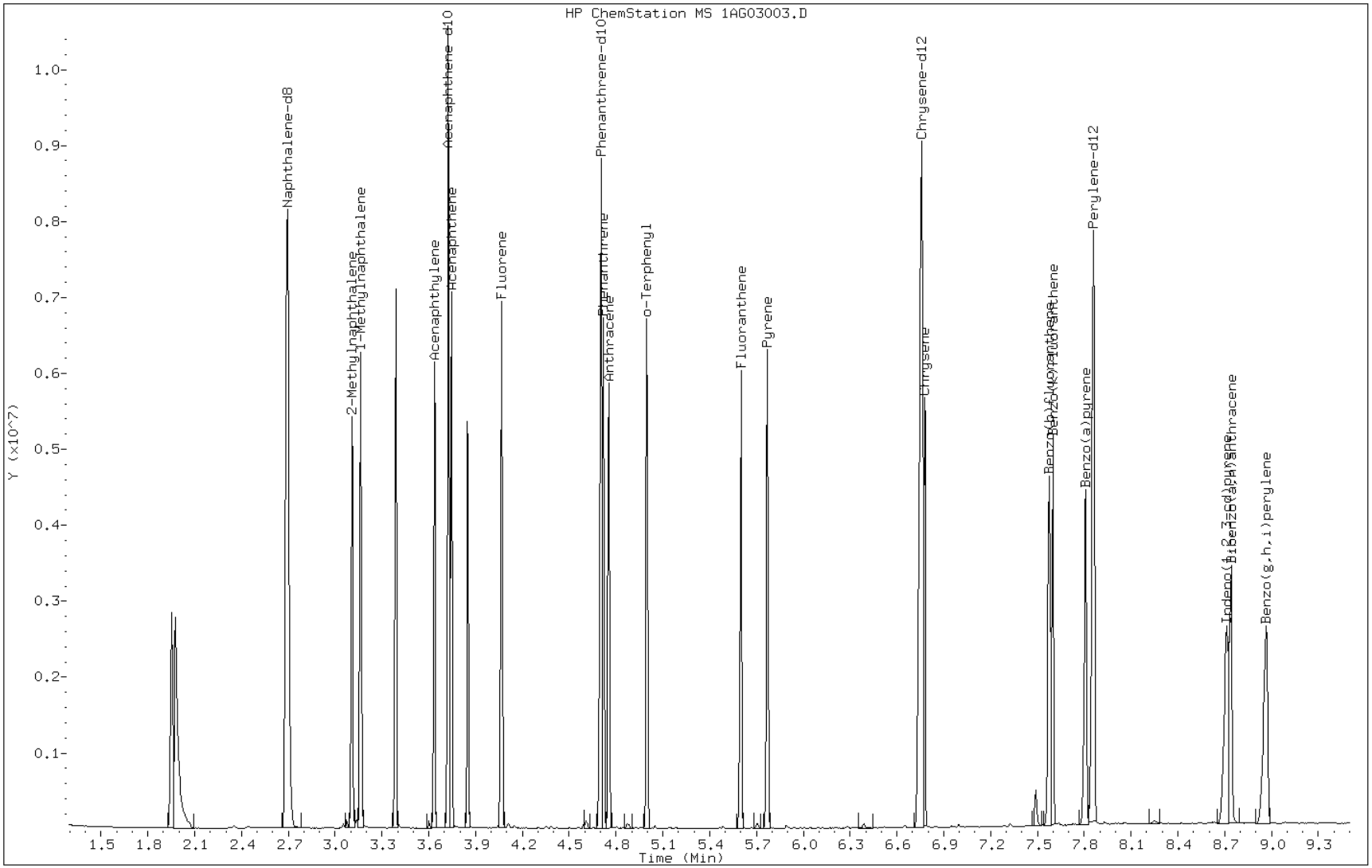
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.689	2.689	(1.000)	4148746	40.0000	
* 7 Acenaphthene-d10	164	3.725	3.725	(1.000)	2198267	40.0000	
* 11 Phenanthrene-d10	188	4.703	4.703	(1.000)	3490904	40.0000	
$ 15 o-Terphenyl	230	4.996	4.996	(1.062)	1150212	20.0000	20.1722
* 19 Chrysene-d12	240	6.759	6.759	(1.000)	3237759	40.0000	
* 24 Perylene-d12	264	7.860	7.860	(1.000)	3626470	40.0000	
2 Naphthalene	128	2.705	2.705	(1.006)	1915967	20.0000	17.6875
3 2-Methylnaphthalene	141	3.105	3.105	(1.155)	1109919	20.0000	17.7702
4 1-Methylnaphthalene	142	3.164	3.164	(1.177)	1287154	20.0000	18.0115
6 Acenaphthylene	152	3.634	3.634	(0.976)	2116962	20.0000	17.1468
8 Acenaphthene	154	3.746	3.746	(1.006)	1124925	20.0000	17.6852
10 Fluorene	166	4.067	4.067	(1.092)	1485385	20.0000	17.3134
12 Phenanthrene	178	4.719	4.719	(1.003)	1788223	20.0000	17.5505
13 Anthracene	178	4.756	4.756	(1.011)	1928187	20.0000	17.5375
16 Fluoranthene	202	5.600	5.600	(1.191)	2272966	20.0000	18.1930
17 Pyrene	202	5.771	5.771	(0.854)	2292586	20.0000	17.5629
18 Benzo(a)anthracene	228	6.743	6.743	(0.998)	2137488	20.0000	19.5296
20 Chrysene	228	6.781	6.781	(1.003)	1841534	20.0000	17.3644
21 Benzo(b)fluoranthene	252	7.577	7.577	(0.964)	2125563	20.0000	18.5187
22 Benzo(k)fluoranthene	252	7.598	7.598	(0.967)	2000968	20.0000	16.9157
23 Benzo(a)pyrene	252	7.812	7.812	(0.994)	1938222	20.0000	18.0686
25 Indeno(1,2,3-cd)pyrene	276	8.715	8.715	(1.109)	1932709	20.0000	20.1833
26 Dibenzo(a,h)anthracene	278	8.741	8.741	(1.112)	1761669	20.0000	18.5659
27 Benzo(g,h,i)perylene	276	8.966	8.966	(1.141)	1834934	20.0000	17.9952

Data File: 1AG03003.D

Date: 03-JUL-2013 11:21

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1559459 Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Lab Sample ID: ICV 660-139145/14 Calibration Date: 07/07/2013 16:01

Instrument ID: BSMA5973 Calib Start Date: 07/07/2013 14:06

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 07/07/2013 15:46

Lab File ID: 1AG07013.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9038	0.9666	0.0000	21400	20000	6.9	35.0
2-Methylnaphthalene	Ave	0.5156	0.5611	0.0000	21800	20000	8.8	35.0
1-Methylnaphthalene	Ave	0.6021	0.6110	0.0000	20300	20000	1.5	35.0
Acenaphthylene	Ave	1.784	1.963	0.0000	22000	20000	10.0	35.0
Acenaphthene	Ave	0.9350	1.062	0.0000	22700	20000	13.6	35.0
Dibenzofuran	Ave	1.537	1.577		20500	20000	2.6	
Fluorene	Ave	1.251	1.374	0.0000	22000	20000	9.8	35.0
Phenanthrene	Ave	1.018	1.068	0.0000	21000	20000	4.9	35.0
Anthracene	Ave	1.062	1.132	0.0000	21300	20000	6.6	35.0
Fluoranthene	Ave	1.225	1.307	0.0000	21300	20000	6.7	35.0
Pyrene	Ave	1.332	1.422	0.0000	21400	20000	6.8	35.0
Benzo[a]anthracene	Lin1	1.390	1.314	0.0000	20600	20000	3.0	35.0
Chrysene	Ave	1.084	1.228	0.0000	22700	20000	13.3	35.0
Benzo[b]fluoranthene	Ave	1.139	1.255	0.0000	22000	20000	10.2	35.0
Benzo[k]fluoranthene	Ave	1.176	1.108	0.0000	18800	20000	-5.8	35.0
Benzo[a]pyrene	Ave	1.053	1.107	0.0000	21000	20000	5.1	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.9182	0.9629	0.0000	21000	20000	4.9	35.0
Dibenz(a,h)anthracene	Ave	0.8681	0.9174	0.0000	21100	20000	5.7	35.0
Benzo[g,h,i]perylene	Ave	0.8705	0.9296	0.0000	21400	20000	6.8	35.0
o-Terphenyl	Ave	0.6078	0.6137	0.0000	20200	20000	1.0	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07013.D
Lab Smp Id: ICV-1558374
Inj Date : 07-JUL-2013 16:01
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1558374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jul-2013 11:45 cantins Quant Type: ISTD
Cal Date : 07-JUL-2013 15:46 Cal File: 1AG07012.D
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah+2.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula: Amt * DF * 1/Vi * Vt/Vo * A * B * C * D * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	2.680	2.683	(1.000)	2624272	40.0000	
* 7 Acenaphthene-d10	164	3.711	3.714	(1.000)	1393027	40.0000	
* 11 Phenanthrene-d10	188	4.689	4.692	(1.000)	2208439	40.0000	
$ 15 o-Terphenyl	230	4.983	4.986	(1.063)	677642	20.1927	20.1926
* 19 Chrysene-d12	240	6.746	6.748	(1.000)	2029780	40.0000	
* 24 Perylene-d12	264	7.841	7.849	(1.000)	2228189	40.0000	
2 Naphthalene	128	2.691	2.694	(1.004)	1268251	21.3898	21.3898
3 2-Methylnaphthalene	141	3.097	3.100	(1.155)	736218	21.7637	21.7636
4 1-Methylnaphthalene	142	3.150	3.153	(1.175)	801754	20.2975	20.2975
5 1,1'-Biphenyl	154	3.375	3.378	(1.259)	982113	19.7712	19.7712
6 Acenaphthylene	152	3.626	3.629	(0.977)	1367360	22.0044	22.0043
8 Acenaphthene	154	3.733	3.735	(1.006)	739528	22.7103	22.7103
9 Dibenzofuran	168	3.840	3.837	(1.035)	1098272	20.5162	20.5161
10 Fluorene	166	4.053	4.056	(1.092)	956699	21.9581	21.9580
12 Phenanthrene	178	4.705	4.708	(1.003)	1178991	20.9760	20.9760
13 Anthracene	178	4.737	4.740	(1.010)	1249521	21.3189	21.3189
16 Fluoranthene	202	5.586	5.589	(1.191)	1443048	21.3361	21.3360

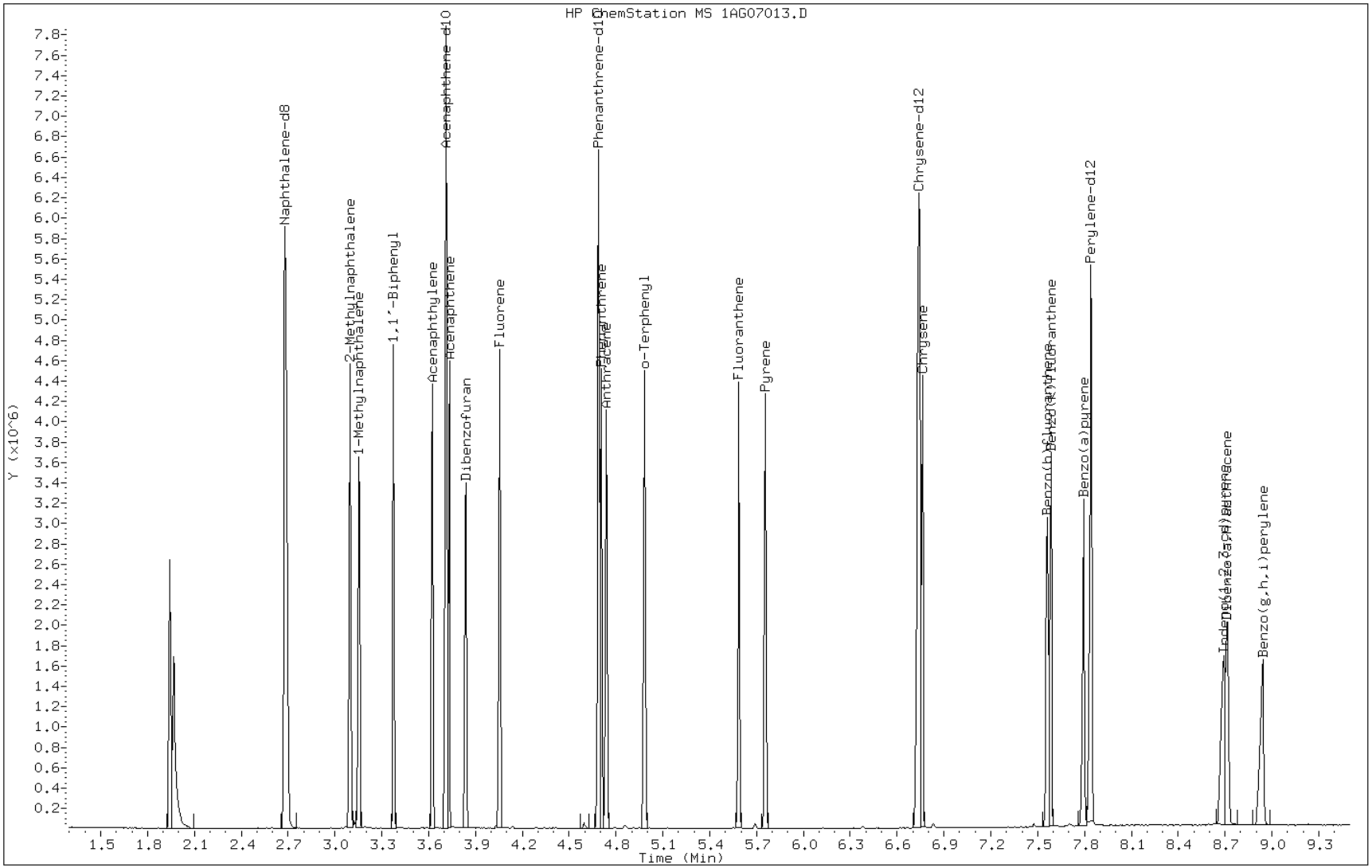
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Pyrene	202	5.757	5.760	(0.854)	1442889	21.3530	21.3530
18 Benzo(a)anthracene	228	6.730	6.732	(0.998)	1333833	20.5974	20.5974
20 Chrysene	228	6.762	6.764	(1.002)	1246020	22.6606	22.6606
21 Benzo(b)fluoranthene	252	7.563	7.566	(0.965)	1398389	22.0466	22.0465
22 Benzo(k)fluoranthene	252	7.584	7.587	(0.967)	1234469	18.8492	18.8492
23 Benzo(a)pyrene	252	7.793	7.795	(0.994)	1233362	21.0262	21.0262
25 Indeno(1,2,3-cd)pyrene	276	8.690	8.693	(1.108)	1072748	20.9740	20.9739
26 Dibenzo(a,h)anthracene	278	8.717	8.720	(1.112)	1022060	21.1349	21.1348
27 Benzo(g,h,i)perylene	276	8.941	8.944	(1.140)	1035665	21.3571	21.3571

Data File: 1AG07013.D

Date: 07-JUL-2013 16:01

Client ID: Instrument: BSMA5973.i

Sample Info: ICV-1558374 Operator: SCC



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Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113.b\1AF11003.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 11-JUN-2013 14:14
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
5.088	4.963	0.125	198	283072			50.00- 0.00	100.00
5.088	4.963	0.125	51	84832			10.00- 80.00	29.97
5.088	4.963	0.125	68	0	0.0	0.0	0.00- 2.00	0.00
5.088	4.963	0.125	69	79248			0.00- 0.00	28.00
5.088	4.963	0.125	70	1405			0.00- 2.00	1.77
5.088	4.963	0.125	127	109688			10.00- 80.00	38.75
5.088	4.963	0.125	197	0	0.0	0.0	0.00- 2.00	0.00
5.088	4.963	0.125	442	239360			50.00- 0.00	84.56
5.088	4.963	0.125	199	18416			5.00- 9.00	6.51
5.088	4.963	0.125	275	70272			10.00- 60.00	24.82
5.088	4.963	0.125	365	6804			1.00- 0.00	2.40
5.088	4.963	0.125	441	35088			0.01- 99.99	77.60
5.088	4.963	0.125	443	45216			15.00- 24.00	18.89

Data File: 1AF11003.D

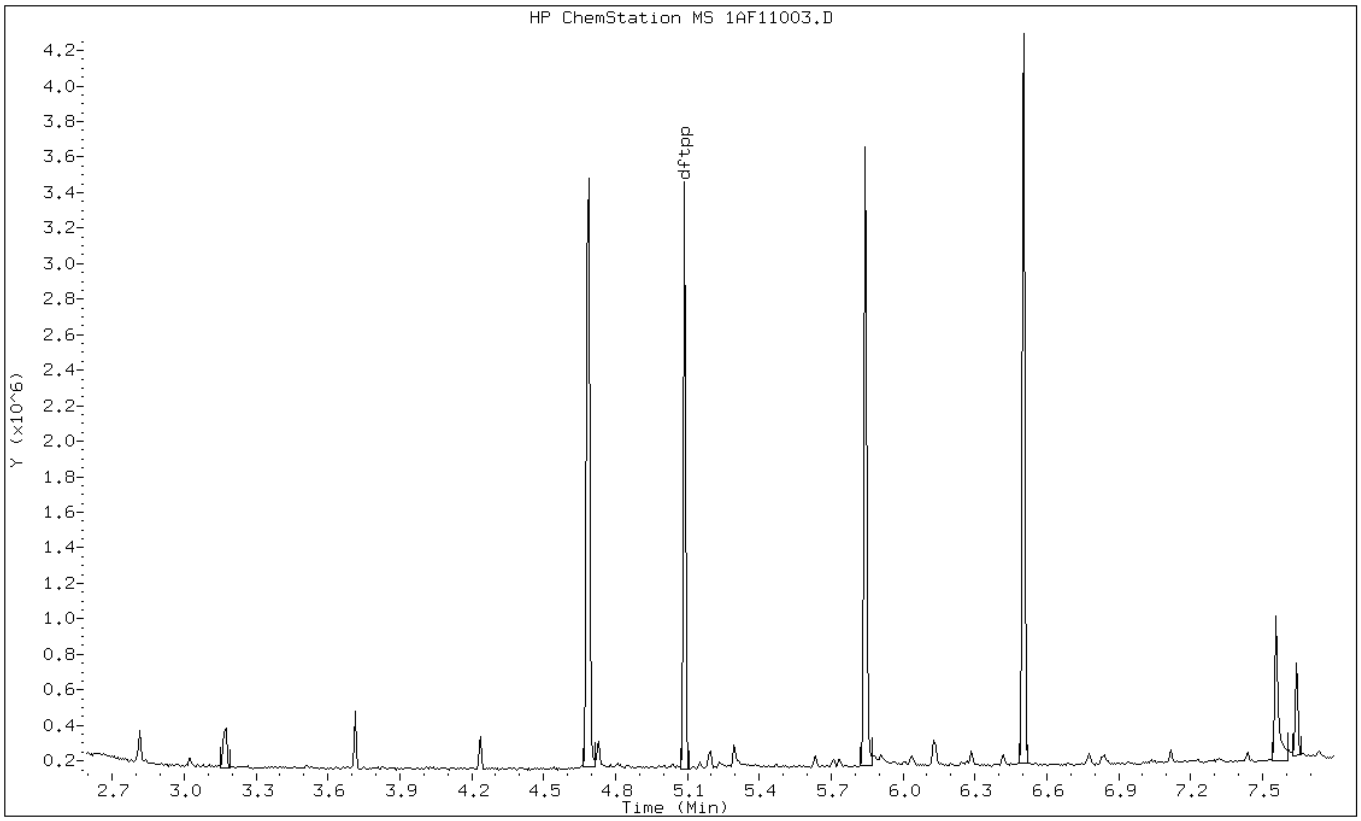
Date: 11-JUN-2013 14:14

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC



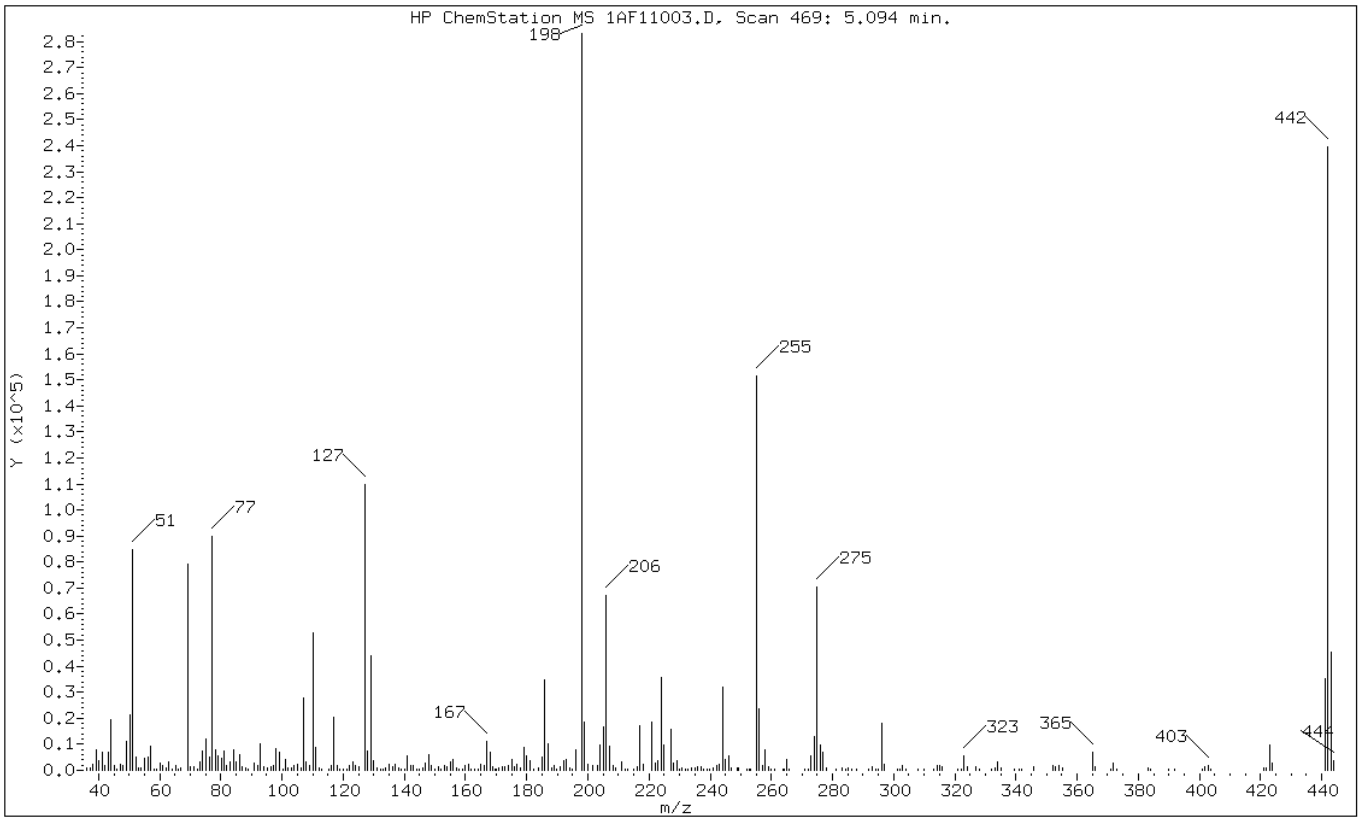
Data File: 1AF11003.D

Date: 11-JUN-2013 14:14

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	29.97
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	28.00
70	Less than 2.00% of mass 69	0.50 (1.77)
127	10.00 - 80.00% of mass 198	38.75
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	84.56
199	5.00 - 9.00% of mass 198	6.51
275	10.00 - 60.00% of mass 198	24.82
365	Greater than 1.00% of mass 198	2.40
441	Present, but less than mass 443	12.40
443	15.00 - 24.00% of mass 442	15.97 (18.89)

Data File: 1AF11003.D

Date: 11-JUN-2013 14:14

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A061113_IC.b\1AF11003.D
Spectrum: HP ChemStation MS 1AF11003.D, Scan 469: 5.094 min.
Location of Maximum: 198.00
Number of points: 288

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	1082	111.00	8965	185.00	5144	271.00	468
37.10	842	112.00	1135	186.00	34584	272.10	528
38.10	2165	113.00	449	187.00	10093	273.00	5772
39.10	7874	115.10	635	188.20	1021	274.00	12797
40.10	3485	116.10	1673	188.90	1854	275.00	70272
41.10	6806	117.00	20416	189.80	573	276.00	9613
42.10	1937	118.10	1807	190.90	1272	277.00	6786
43.10	6800	119.00	473	192.10	3871	277.90	787
44.10	19280	120.00	426	193.00	4397	281.10	610
45.10	2027	121.20	436	194.10	950	283.10	1126
46.00	559	121.90	1977	195.00	679	284.20	379
47.10	2404	123.00	3085	196.00	7879	285.10	1146
48.10	1678	124.00	1824	198.00	283072	286.10	447
49.10	11325	125.00	1337	199.00	18416	287.70	280
50.10	21352	127.00	109688	200.00	2412	292.00	309
51.10	84832	128.00	7360	201.50	1843	293.00	1473
52.10	4906	129.00	43784	203.00	1630	294.00	316
53.10	882	130.00	3930	204.00	9704	294.90	321
54.00	767	131.00	818	205.00	16888	296.00	18208
55.10	4472	132.10	429	206.00	66960	297.00	2241
56.10	4975	133.00	492	207.00	9084	301.10	308
57.10	9479	134.00	1147	208.10	1810	301.90	338
58.10	558	135.00	2431	208.90	924	303.00	2040
59.10	648	136.00	1505	211.00	3149	304.20	509
60.10	2791	137.10	2210	212.10	549	308.00	345
61.10	2016	138.20	812	213.00	424	310.10	399
62.20	1020	139.10	667	214.80	619	313.10	458
63.00	3416	140.10	627	215.10	627	314.10	1682
64.00	492	141.00	5724	216.10	1579	315.00	1980
65.10	1917	142.10	1678	216.90	17032	316.00	1559
66.10	507	143.00	1792	218.00	2454	321.10	430
67.00	960	143.90	376	221.00	18408	322.00	343
69.00	79248	144.90	474	221.90	2968	323.10	5599
70.10	1405	146.20	926	223.00	3672	324.00	1504
71.10	1576	147.00	2656	224.00	35624	327.00	1257
72.20	442	148.00	5820	225.00	9522	327.90	579
73.10	3402	148.90	1710	227.00	15875	332.00	441
74.10	7242	149.80	489	228.00	2646	333.00	996
75.10	11859	151.10	1279	229.00	3907	334.00	3296
76.10	4940	152.10	612	230.00	571	335.00	952

77.10	89880	153.10	1700	230.90	1071	339.30	317
78.10	7766	154.00	1445	232.10	387	341.10	665
79.10	5778	155.00	3082	232.90	305	341.90	321
80.10	4675	156.00	4189	234.00	716	345.90	1340
81.00	7204	157.00	924	235.00	1141	352.00	2001
82.00	1795	158.00	568	236.00	1197	353.00	1236
83.10	3410	159.10	553	237.00	1387	354.10	1875
84.00	7820	160.00	1995	237.70	369	355.10	703
85.10	3458	161.00	2102	239.10	666	365.00	6804
86.00	5941	161.90	608	239.90	405	366.00	1308
87.10	1427	162.80	400	241.00	1029	371.10	514
88.00	793	163.10	315	242.00	2015	371.90	2796
88.90	351	164.20	537	243.00	2182	372.90	471
91.00	2812	165.00	2420	244.00	31960	383.10	837
92.10	1877	166.10	1840	245.10	4273	384.00	355
93.00	10403	167.00	11027	246.00	5757	390.00	413
94.10	1447	168.00	6747	246.90	1016	391.90	303
95.10	928	169.00	1444	248.90	1085	400.80	329
96.20	1456	169.80	343	249.10	1097	401.90	1380
97.20	1674	170.10	330	251.90	335	402.90	2006
98.10	8401	171.00	914	253.00	643	403.90	657
99.00	7172	172.10	1359	253.20	652	421.00	1153
100.20	502	173.00	1586	255.00	151616	421.90	941
101.00	4037	174.00	1808	256.00	23472	422.90	9853
101.90	698	175.00	4285	257.00	1860	424.00	2631
103.00	986	176.10	1454	258.00	7758	441.00	35088
104.00	2050	176.90	2169	259.10	1540	442.00	239360
105.00	2340	177.90	838	260.00	543	443.00	45216
106.10	985	179.00	8893	261.00	494	443.90	3886
107.00	27752	180.00	5732	263.70	349		
108.00	3452	181.10	3695	264.20	361		
109.10	1642	182.20	395	265.00	4177		
110.00	52936	184.00	698	265.90	525		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\1AG02002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 02-JUL-2013 11:16
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

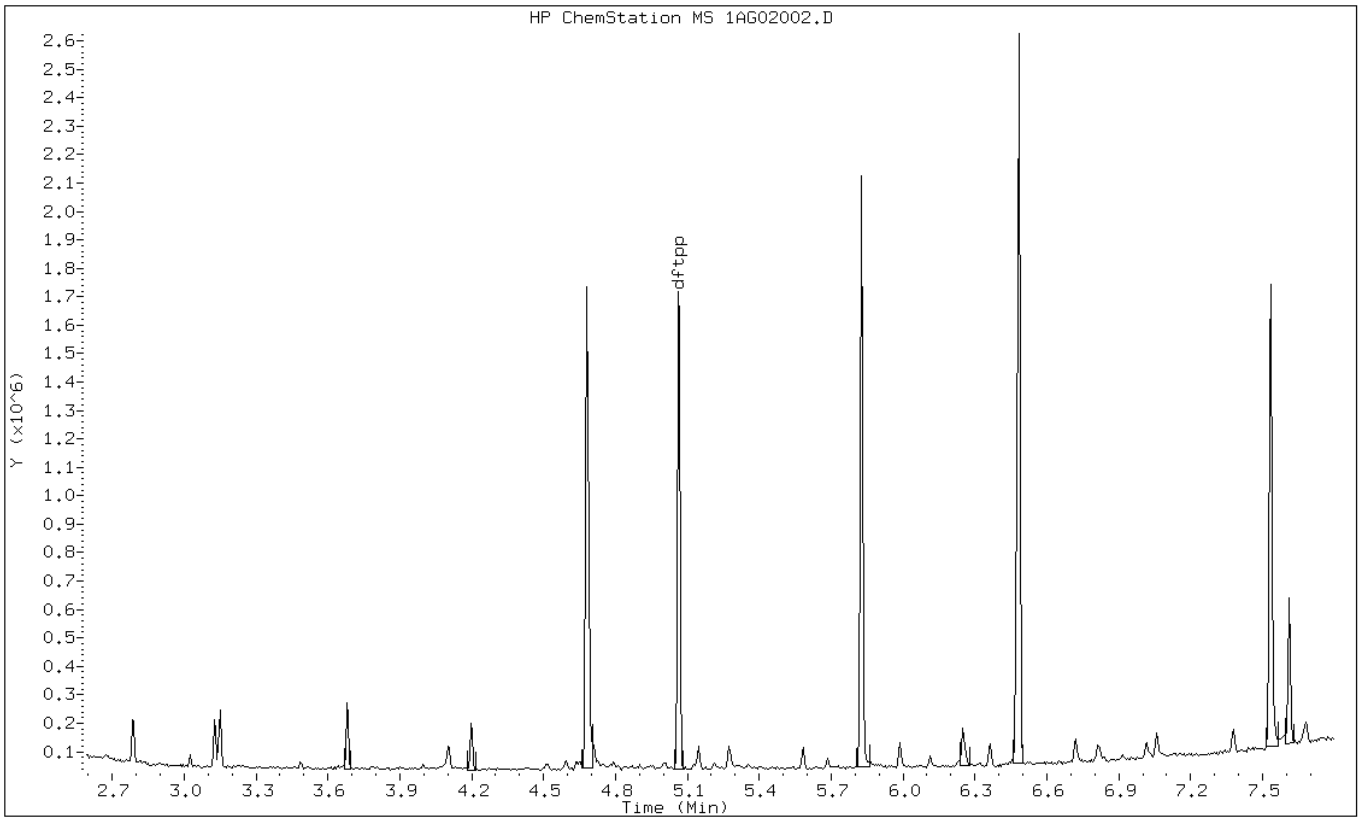
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
5.061	4.963	0.098	198	197760			50.00- 0.00	100.00
5.061	4.963	0.098	51	62264			10.00- 80.00	31.48
5.061	4.963	0.098	68	0	0.0	0.0	0.00- 2.00	0.00
5.061	4.963	0.098	69	59544			0.00- 0.00	30.11
5.061	4.963	0.098	70	572			0.00- 2.00	0.96
5.061	4.963	0.098	127	82720			10.00- 80.00	41.83
5.061	4.963	0.098	197	0	0.0	0.0	0.00- 2.00	0.00
5.061	4.963	0.098	442	180864			50.00- 0.00	91.46
5.061	4.963	0.098	199	15337			5.00- 9.00	7.76
5.061	4.963	0.098	275	48568			10.00- 60.00	24.56
5.061	4.963	0.098	365	5504			1.00- 0.00	2.78
5.061	4.963	0.098	441	26344			0.01- 99.99	75.08
5.061	4.963	0.098	443	35088			15.00- 24.00	19.40

Data File: 1AG02002.D

Date: 02-JUL-2013 11:16

Client ID: DFTPP | Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 | Operator: SCC



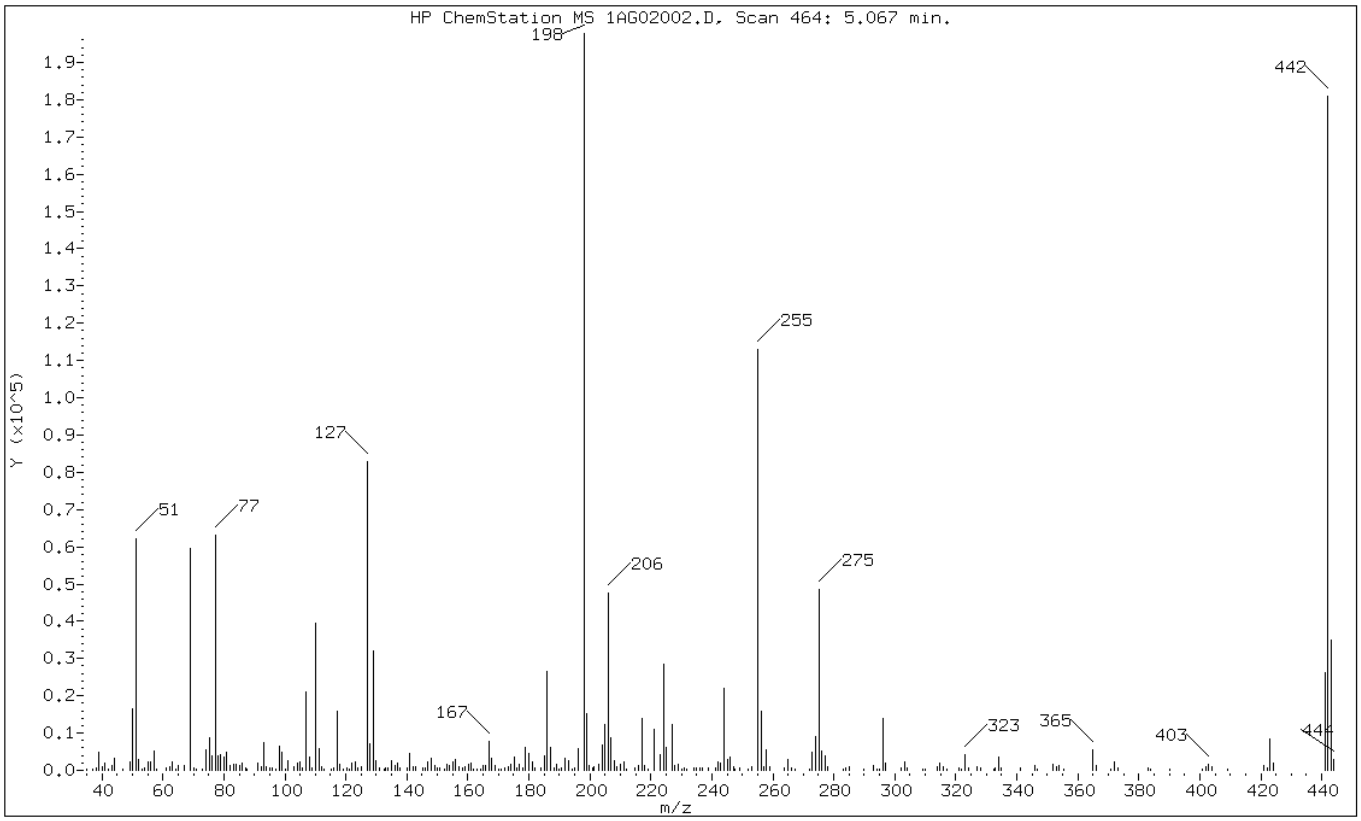
Data File: 1AG02002.D

Date: 02-JUL-2013 11:16

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	31.48
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	30.11
70	Less than 2.00% of mass 69	0.29 (0.96)
127	10.00 - 80.00% of mass 198	41.83
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	91.46
199	5.00 - 9.00% of mass 198	7.76
275	10.00 - 60.00% of mass 198	24.56
365	Greater than 1.00% of mass 198	2.78
441	Present, but less than mass 443	13.32
443	15.00 - 24.00% of mass 442	17.74 (19.40)

Data File: 1AG02002.D

Date: 02-JUL-2013 11:16

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\1AG02002.D
Spectrum: HP ChemStation MS 1AG02002.D, Scan 464: 5.067 min.
Location of Maximum: 198.00
Number of points: 263

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	267	113.00	354	183.90	528	266.00	737
37.10	344	115.30	264	185.10	4034	267.40	315
38.20	639	116.00	739	186.00	26400	272.10	370
39.10	4871	117.00	15910	187.00	6044	273.00	4814
40.10	1016	118.00	1491	188.20	767	274.10	9004
41.10	1915	119.00	327	189.00	1582	275.10	48568
42.30	406	120.20	496	189.90	345	276.00	5202
43.10	1148	121.20	439	190.80	674	277.00	3837
44.00	3245	122.10	1901	192.00	3179	278.00	960
47.00	419	123.00	2248	193.20	2688	283.20	352
49.10	2332	123.90	774	194.10	414	283.80	504
50.10	16568	125.00	1101	195.10	695	285.10	949
51.10	62264	127.00	82720	196.10	5691	290.00	320
52.10	2768	128.00	7216	198.00	197760	292.90	1173
53.00	270	129.00	31984	199.00	15337	294.00	325
53.90	524	130.00	2491	199.90	1155	295.10	479
55.20	2200	131.10	610	200.90	576	296.00	13889
56.00	2326	132.40	317	201.50	1044	297.00	2066
57.10	5167	133.10	635	203.10	1512	302.10	498
58.00	433	133.80	682	204.10	6759	303.10	2193
61.10	764	135.10	2567	205.00	12332	304.10	509
62.10	880	136.10	1203	206.10	47432	309.00	276
63.10	2295	137.10	1971	207.00	8633	310.10	464
64.10	458	137.80	487	207.90	2531	314.10	860
65.10	1355	140.00	698	209.00	883	314.90	1975
67.10	1196	141.00	4454	210.10	1570	315.90	815
69.00	59544	142.00	1119	211.10	2377	316.90	276
70.10	572	143.00	955	212.10	313	321.10	645
71.10	344	145.20	627	214.90	497	321.90	332
73.00	471	145.90	798	216.10	1217	323.00	4362
74.10	5410	147.00	2127	217.00	13877	324.10	743
75.10	8608	148.00	3091	218.00	1376	327.10	836
76.10	3774	149.00	1190	219.00	300	328.00	773
77.10	63256	150.10	556	221.00	11137	332.30	355
78.10	3881	150.90	702	223.10	4261	333.00	546
79.00	4305	152.20	333	224.10	28432	334.10	3407
80.00	3705	153.00	1521	225.00	6256	334.90	568
81.00	4771	153.90	1326	227.00	12207	341.10	611
82.10	1246	155.10	2279	227.90	1185	346.00	1267
83.10	1565	156.00	2986	229.10	1767	346.80	361

84.00	1513	157.10	1004	230.10	457	352.00	1622
85.10	1433	158.10	574	231.00	712	353.10	866
86.00	2036	158.90	821	231.90	363	354.00	1231
87.00	528	160.10	1565	234.00	765	355.30	394
87.70	335	161.10	1944	235.00	765	365.00	5504
91.00	1882	161.70	467	235.90	535	366.10	1214
92.10	885	163.10	271	237.00	644	370.80	252
93.00	7454	164.20	286	239.00	510	372.10	2265
94.00	896	165.00	1301	241.10	738	373.10	664
95.20	625	165.90	1376	242.10	2136	383.10	572
95.90	509	167.10	7689	243.00	1972	383.90	324
97.00	473	167.90	3170	244.10	21856	390.00	314
98.10	6485	169.00	1201	245.10	2861	401.00	336
99.10	4945	170.00	453	246.00	3706	401.90	880
100.00	480	171.10	482	247.00	844	403.00	1590
101.00	2492	172.10	504	247.70	428	403.90	810
103.00	989	173.10	949	249.10	671	409.10	277
104.00	1919	174.00	1504	251.90	317	421.00	1369
105.10	2319	175.10	3551	253.00	1002	422.00	677
105.90	649	176.00	777	255.00	112808	423.00	8562
107.10	20960	177.00	1573	256.10	15927	424.00	1859
108.00	3440	177.90	719	256.90	962	441.00	26344
109.00	727	179.00	6077	258.00	5629	442.00	180864
110.00	39464	180.00	4545	259.00	1083	443.00	35088
111.10	5801	181.00	2316	263.90	578	443.90	2801
112.10	951	182.00	640	265.10	2754		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 03-JUL-2013 11:08
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
5.064	4.963	0.101	198	276448			50.00- 0.00	100.00
5.064	4.963	0.101	51	113256			10.00- 80.00	40.97
5.064	4.963	0.101	68	0	0.0	0.0	0.00- 2.00	0.00
5.064	4.963	0.101	69	103700			0.00- 0.00	37.51
5.064	4.963	0.101	70	886			0.00- 2.00	0.85
5.064	4.963	0.101	127	122748			10.00- 80.00	44.40
5.064	4.963	0.101	197	0	0.0	0.0	0.00- 2.00	0.00
5.064	4.963	0.101	442	196288			50.00- 0.00	71.00
5.064	4.963	0.101	199	18026			5.00- 9.00	6.52
5.064	4.963	0.101	275	63940			10.00- 60.00	23.13
5.064	4.963	0.101	365	6724			1.00- 0.00	2.43
5.064	4.963	0.101	441	27256			0.01- 99.99	75.79
5.064	4.963	0.101	443	35964			15.00- 24.00	18.32

Data File: 1AG03002.D

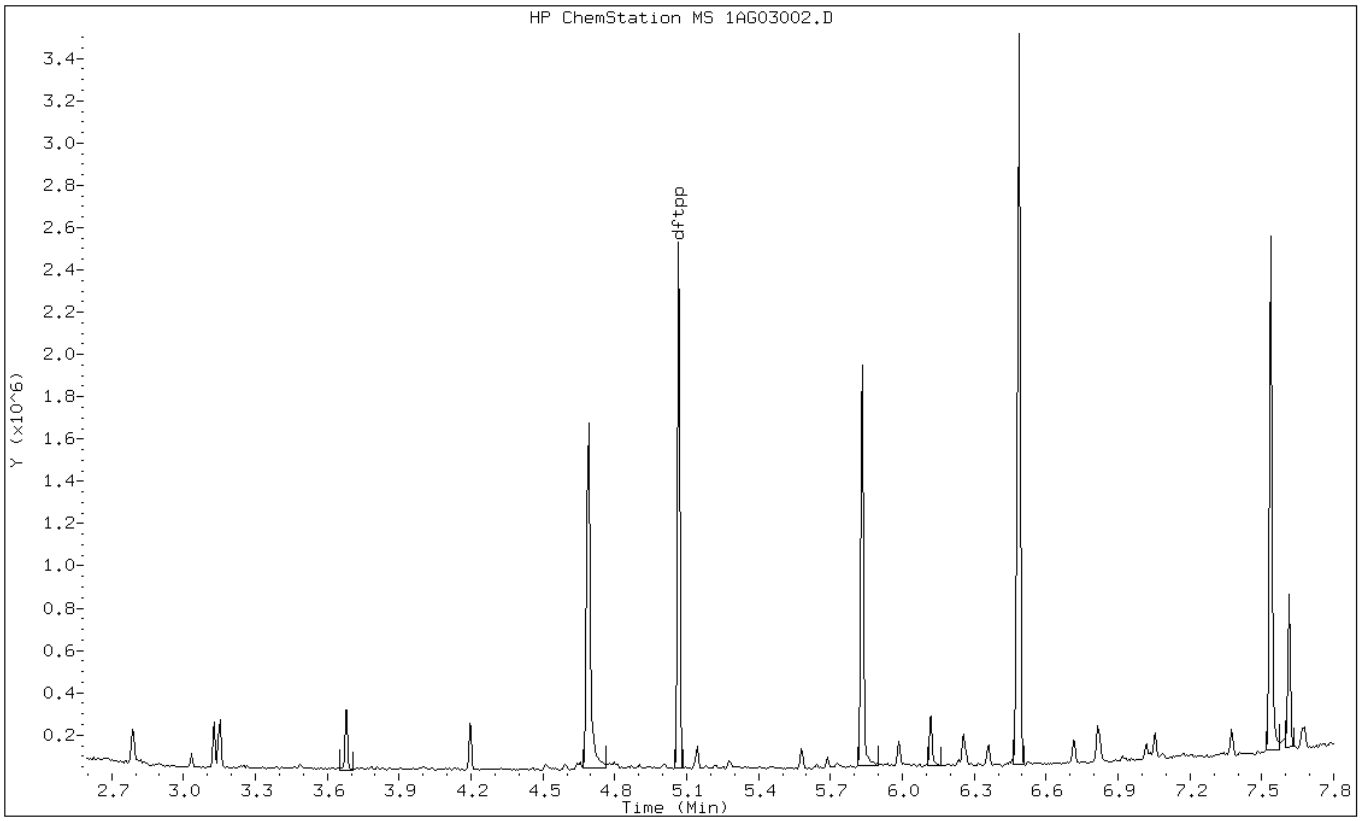
Date: 03-JUL-2013 11:08

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC



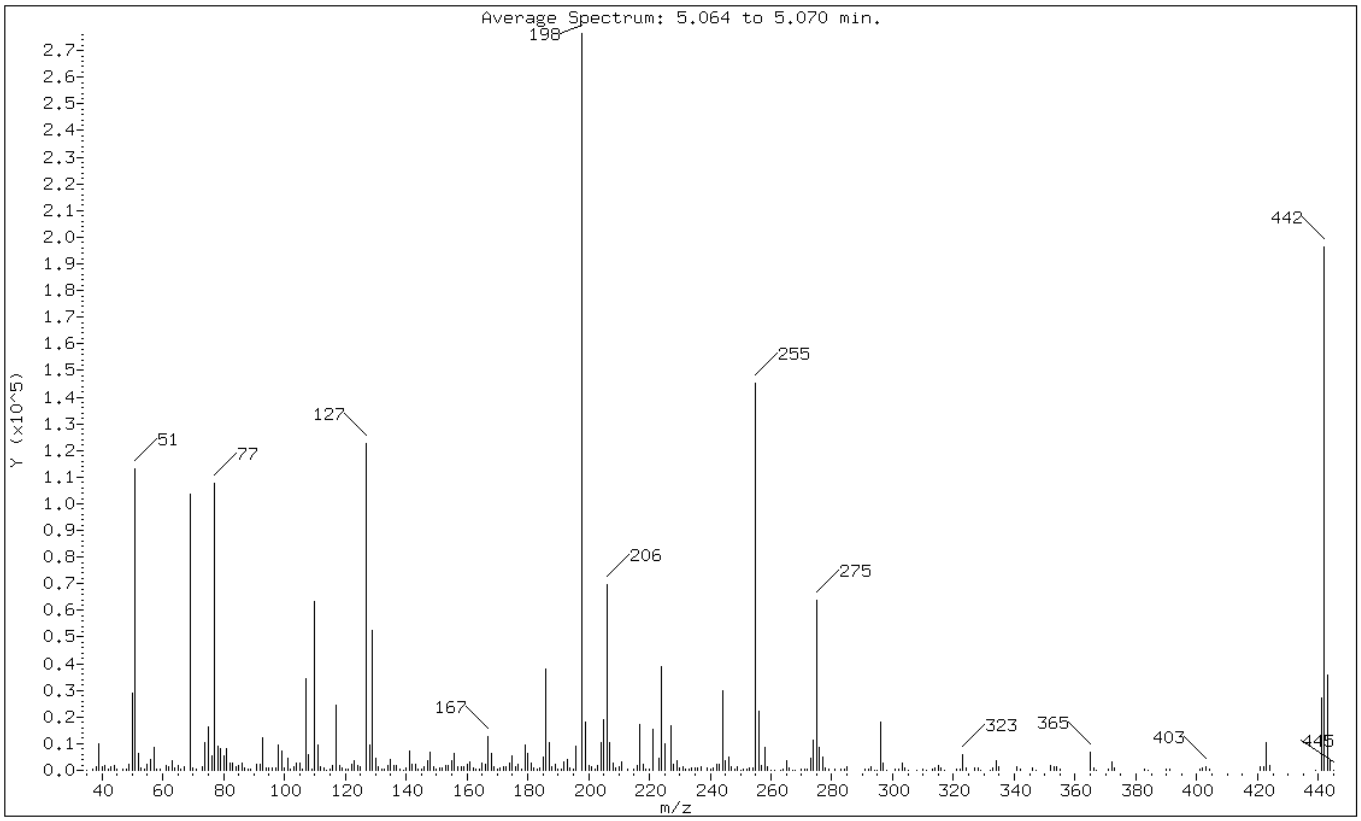
Data File: 1AG03002.D

Date: 03-JUL-2013 11:08

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	40.97
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	37.51
70	Less than 2.00% of mass 69	0.32 (0.85)
127	10.00 - 80.00% of mass 198	44.40
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	71.00
199	5.00 - 9.00% of mass 198	6.52
275	10.00 - 60.00% of mass 198	23.13
365	Greater than 1.00% of mass 198	2.43
441	Present, but less than mass 443	9.86
443	15.00 - 24.00% of mass 442	13.01 (18.32)

Data File: 1AG03002.D

Date: 03-JUL-2013 11:08

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03002.D
Spectrum: Average Spectrum: 5.064 to 5.070 min.
Location of Maximum: 198.00
Number of points: 298

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	155	116.00	1710	192.00	3000	275.00	63936
37.00	677	117.00	24424	193.00	3890	276.00	8814
38.00	1401	118.00	2029	194.00	929	277.00	4940
39.00	9765	119.00	813	195.00	260	278.00	1051
40.00	1287	120.00	431	196.00	8868	279.00	301
41.00	1801	121.00	583	198.00	276416	281.00	321
42.00	620	122.00	2166	199.00	18024	283.00	619
43.00	1507	123.00	3519	200.00	1613	284.00	342
44.00	1949	124.00	1944	201.00	1387	285.00	1396
45.00	408	125.00	1573	202.00	229	291.00	289
47.00	582	127.00	122744	203.00	1894	292.00	341
48.00	306	128.00	9416	204.00	10438	293.00	1225
49.00	2398	129.00	52400	205.00	18936	294.00	198
50.00	28856	130.00	4419	206.00	69624	295.00	214
51.00	113256	131.00	1225	207.00	10212	296.00	17976
52.00	6277	132.00	546	208.00	2710	297.00	2626
53.00	693	133.00	395	209.00	869	298.00	177
54.00	381	134.00	1901	210.00	1372	301.00	294
55.00	2388	135.00	4275	211.00	3174	302.00	383
56.00	4215	136.00	1603	213.00	233	303.00	2566
57.00	8534	137.00	1778	215.00	655	304.00	750
58.00	250	138.00	555	216.00	1723	305.00	208
59.00	379	139.00	207	217.00	17224	308.00	153
61.00	1803	140.00	693	218.00	2119	310.00	360
62.00	1484	141.00	7023	219.00	431	311.00	130
63.00	3820	142.00	2136	220.00	318	313.00	274
64.00	686	143.00	2095	221.00	15188	314.00	992
65.00	1872	144.00	522	223.00	4615	315.00	1766
66.00	404	145.00	503	224.00	39128	316.00	1009
67.00	1162	146.00	1180	225.00	9933	317.00	219
69.00	103696	147.00	3818	227.00	16888	321.00	443
70.00	886	148.00	6792	228.00	2288	322.00	324
71.00	570	149.00	1514	229.00	3447	323.00	5791
73.00	1401	150.00	660	230.00	701	324.00	836
74.00	10477	151.00	1118	231.00	1482	327.00	850
75.00	16282	152.00	873	232.00	375	328.00	727
76.00	5622	153.00	1944	233.00	424	329.00	132
77.00	107448	154.00	1637	234.00	945	332.00	180
78.00	8924	155.00	3665	235.00	1119	333.00	836
79.00	8328	156.00	6198	236.00	1130	334.00	3840

80.00	5471	157.00	1294	237.00	1195	335.00	1264
81.00	8224	158.00	1227	239.00	803	341.00	1198
82.00	2499	159.00	1140	240.00	619	342.00	343
83.00	2803	160.00	2199	241.00	916	346.00	806
84.00	1253	161.00	3231	242.00	2428	347.00	160
85.00	1649	162.00	1041	243.00	2269	352.00	1632
86.00	2874	163.00	475	244.00	29912	353.00	1164
87.00	1084	164.00	388	245.00	3403	354.00	1475
88.00	411	165.00	2787	246.00	5017	355.00	366
89.00	339	166.00	2483	247.00	1276	365.00	6724
91.00	2401	167.00	12721	248.00	366	366.00	1059
92.00	2062	168.00	6367	249.00	1170	367.00	129
93.00	12059	169.00	1202	250.00	222	371.00	366
94.00	864	170.00	515	251.00	503	372.00	2961
95.00	777	171.00	739	252.00	244	373.00	875
96.00	687	172.00	1414	253.00	914	383.00	478
97.00	864	173.00	1458	254.00	1007	384.00	132
98.00	9426	174.00	2910	255.00	145408	390.00	312
99.00	7219	175.00	5450	256.00	22280	391.00	316
100.00	952	176.00	1247	257.00	1721	401.00	285
101.00	4343	177.00	2081	258.00	8468	402.00	1063
102.00	325	178.00	574	259.00	1275	403.00	1372
103.00	1444	179.00	9629	260.00	143	404.00	424
104.00	2719	180.00	6518	261.00	165	421.00	1256
105.00	2771	181.00	2713	263.00	183	422.00	1492
106.00	331	182.00	726	264.00	386	423.00	10349
107.00	34496	183.00	565	265.00	3534	424.00	1687
108.00	6016	184.00	981	266.00	882	439.00	182
109.00	612	185.00	5116	267.00	218	441.00	27256
110.00	63560	186.00	37912	268.00	140	442.00	196288
111.00	9657	187.00	10473	270.00	346	443.00	35960
112.00	1320	188.00	1245	271.00	623	444.00	3822
113.00	681	189.00	2279	272.00	274	445.00	162
114.00	140	190.00	640	273.00	4568		
115.00	608	191.00	646	274.00	11465		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07005.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 07-JUL-2013 13:53
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1525851
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\a-dftpp198.m
Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

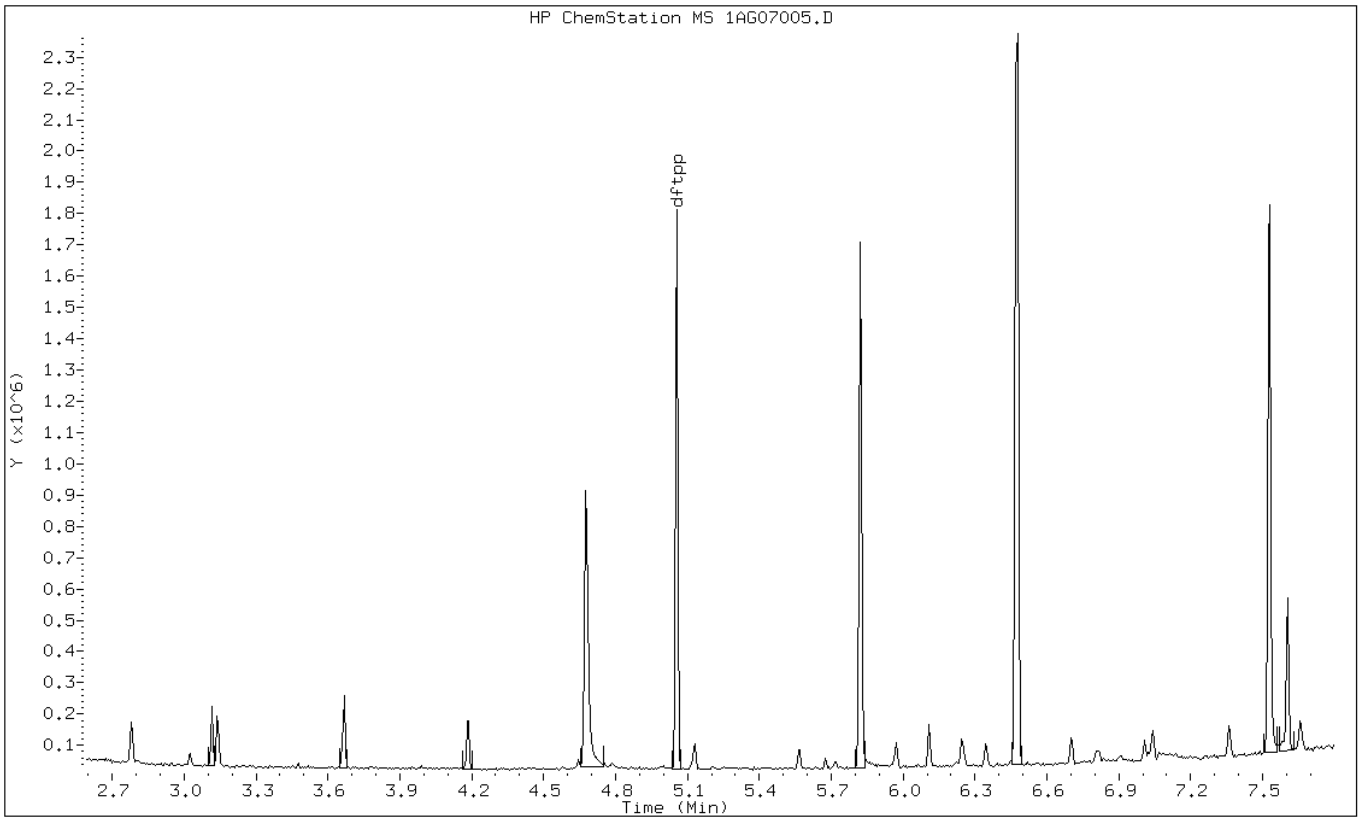
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
5.056	4.963	0.093	198	214144			50.00- 0.00	100.00
5.056	4.963	0.093	51	89200			10.00- 80.00	41.65
5.056	4.963	0.093	68	0	0.0	0.0	0.00- 2.00	0.00
5.056	4.963	0.093	69	79096			0.00- 0.00	36.94
5.056	4.963	0.093	70	606			0.00- 2.00	0.77
5.056	4.963	0.093	127	100320			10.00- 80.00	46.85
5.056	4.963	0.093	197	0	0.0	0.0	0.00- 2.00	0.00
5.056	4.963	0.093	442	149056			50.00- 0.00	69.61
5.056	4.963	0.093	199	14178			5.00- 9.00	6.62
5.056	4.963	0.093	275	52752			10.00- 60.00	24.63
5.056	4.963	0.093	365	5938			1.00- 0.00	2.77
5.056	4.963	0.093	441	22400			0.01- 99.99	76.02
5.056	4.963	0.093	443	29464			15.00- 24.00	19.77

Data File: 1AG07005.D

Date: 07-JUL-2013 13:53

Client ID: DFTPP | Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 | Operator: SCC



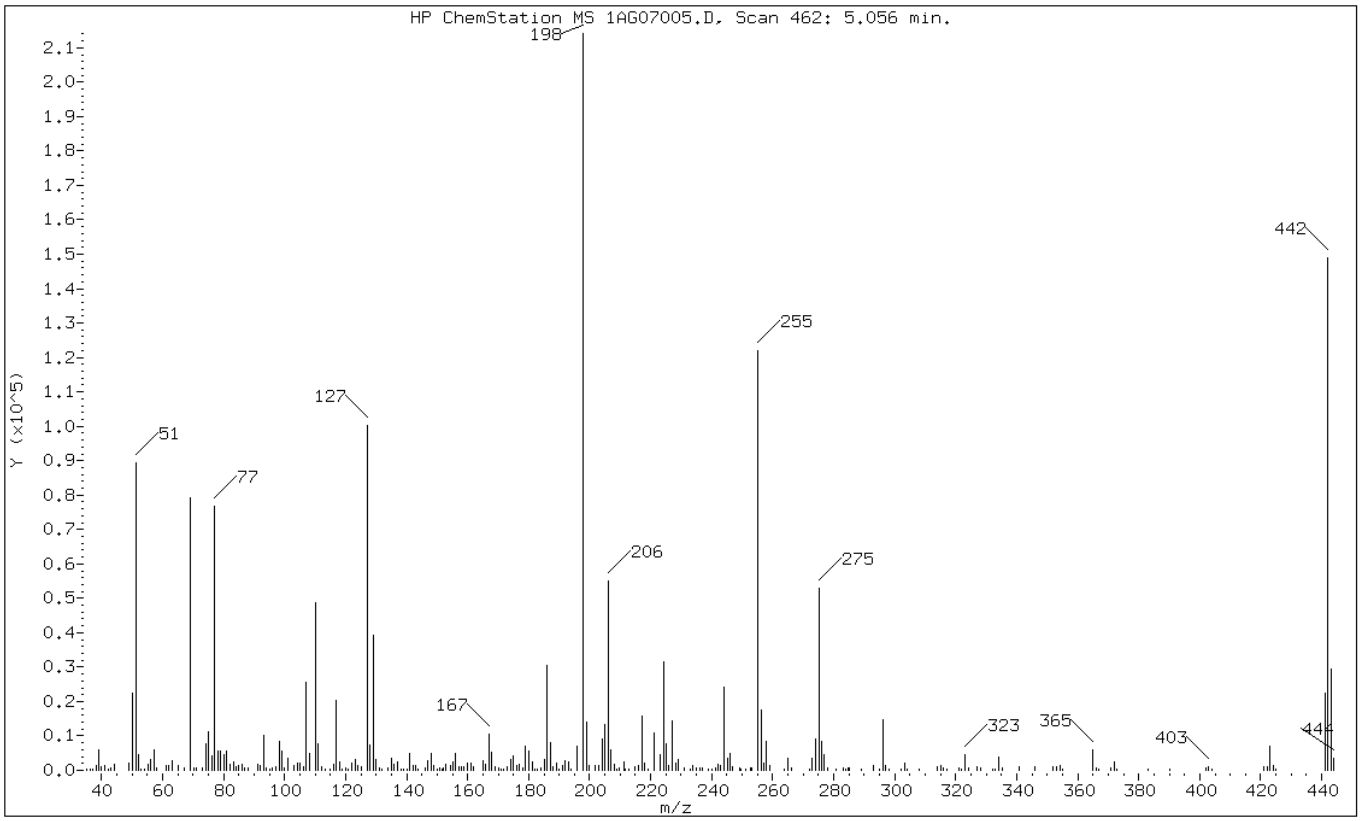
Data File: 1AG07005.D

Date: 07-JUL-2013 13:53

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	41.65
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	36.94
70	Less than 2.00% of mass 69	0.28 (0.77)
127	10.00 - 80.00% of mass 198	46.85
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	69.61
199	5.00 - 9.00% of mass 198	6.62
275	10.00 - 60.00% of mass 198	24.63
365	Greater than 1.00% of mass 198	2.77
441	Present, but less than mass 443	10.46
443	15.00 - 24.00% of mass 442	13.76 (19.77)

Data File: 1AG07005.D

Date: 07-JUL-2013 13:53

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1525851 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A070713.b\1AG07005.D
Spectrum: HP ChemStation MS 1AG07005.D, Scan 462: 5.056 min.
Location of Maximum: 198.00
Number of points: 260

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	302	116.00	1716	186.00	30424	272.00	288
36.10	259	117.00	20400	187.00	8101	273.00	3466
37.00	453	118.00	2363	188.10	1138	274.10	9207
38.10	1325	119.00	433	189.00	2071	275.10	52752
39.10	6124	120.20	717	189.90	326	276.00	8448
40.00	899	121.00	337	191.00	1449	277.00	4425
41.10	1289	122.10	2234	192.10	2958	277.90	856
42.10	415	123.10	3018	193.00	2417	280.80	307
43.10	629	124.10	1365	194.00	389	283.10	871
44.00	1831	125.00	961	195.90	7045	284.00	478
49.10	2243	127.00	100320	198.00	214144	284.90	579
50.10	22352	128.00	7292	199.00	14178	285.20	619
51.10	89200	129.00	39256	200.00	1418	288.90	481
52.10	4515	129.90	3046	201.70	1540	293.20	1261
53.00	347	131.00	710	203.00	1520	294.80	410
54.10	330	132.00	480	204.10	9070	296.00	14592
55.10	1664	133.90	833	205.00	13439	297.10	1465
56.10	3149	135.10	3415	206.00	55184	298.20	403
57.10	6062	136.00	1721	207.10	6027	302.20	522
58.20	538	137.10	2338	208.00	1711	303.10	2156
61.00	1382	138.00	446	209.00	457	304.00	386
62.10	1423	139.10	258	209.80	657	307.90	266
63.10	2776	140.10	446	211.10	2608	314.10	886
65.10	1490	141.00	4956	211.80	419	315.00	1454
67.10	635	142.00	1432	213.00	474	315.90	862
69.00	79096	143.00	1451	214.90	900	317.10	340
70.10	606	143.90	452	216.10	1402	321.00	545
71.10	575	146.00	766	217.00	15624	321.90	363
73.20	852	147.00	2755	218.00	2040	323.10	4593
74.10	7830	148.00	5020	219.00	266	324.10	821
75.10	11146	149.00	1468	221.10	10796	327.00	1021
76.10	4051	150.10	340	223.00	4487	328.10	632
77.10	76784	150.90	658	224.10	31608	332.20	486
78.10	5566	151.50	413	225.00	7565	333.10	494
79.00	5514	152.10	607	226.00	1248	334.00	3816
80.00	4545	153.00	1613	227.00	14229	335.20	634
81.00	5450	154.20	1352	228.10	2070	341.00	895
82.10	1793	155.00	2532	229.00	3300	345.90	1025
83.10	2518	156.10	4811	231.10	864	352.00	1192
84.00	1066	157.10	950	233.10	409	353.20	899

85.00	1549	158.00	1002	233.80	1237	354.20	1353
86.00	1842	158.90	1069	235.00	873	354.90	386
87.00	735	160.00	1981	236.00	621	365.00	5938
88.10	641	161.00	2149	237.00	873	366.00	717
91.00	1814	162.00	1021	238.90	439	366.90	354
92.00	1540	165.00	2817	240.00	389	370.90	859
93.10	10239	166.00	1865	241.20	789	371.90	2475
94.00	736	167.10	10587	242.00	1638	373.00	257
95.10	522	168.00	5397	242.90	1564	383.00	510
96.00	802	168.90	877	244.10	24168	390.10	333
97.10	941	170.00	605	245.10	3552	402.10	716
98.10	8499	171.10	481	246.00	4748	402.90	959
99.10	5723	171.90	504	246.90	877	404.10	430
100.00	581	173.10	1198	249.00	798	420.80	1044
101.10	3654	174.00	3012	249.70	352	422.00	1097
102.90	1328	175.10	4116	251.00	356	423.00	7089
104.10	2120	176.10	1263	252.80	598	424.00	1518
105.00	2091	177.00	1657	253.20	694	425.00	442
106.00	993	177.90	663	255.00	122024	441.00	22400
107.00	25760	179.00	6974	256.10	17656	442.00	149056
108.00	4900	180.00	5749	257.00	1990	443.00	29464
110.00	48584	181.10	2532	258.00	8510	443.90	3589
111.00	7686	182.10	410	259.10	1503		
112.00	1087	183.00	297	263.90	265		
113.30	421	184.10	663	265.00	3427		
115.00	322	185.10	3265	266.10	632		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: | Lab Sample ID: MB 660-138994/1-A

Matrix: Solid | Lab File ID: 1AG02024.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 07/01/2013 13:43

Sample wt/vol: 14.90(g) | Date Analyzed: 07/02/2013 17:00

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139030 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.5	U	8.5	4.2
56-55-3	Benzo[a]anthracene	8.1	U	8.1	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	8.1	U	8.1	3.6
218-01-9	Chrysene	9.1	U	9.1	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	8.1	U	8.1	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	46		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\1AG02024.D
Lab Smp Id: mb 660-138994/1-a
Inj Date : 02-JUL-2013 17:00
Operator : SCC Inst ID: BSMA5973.i
Smp Info : mb 660-138994/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\a-bFASTPAHi-m.m
Meth Date : 02-Jul-2013 11:39 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 24 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.900	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

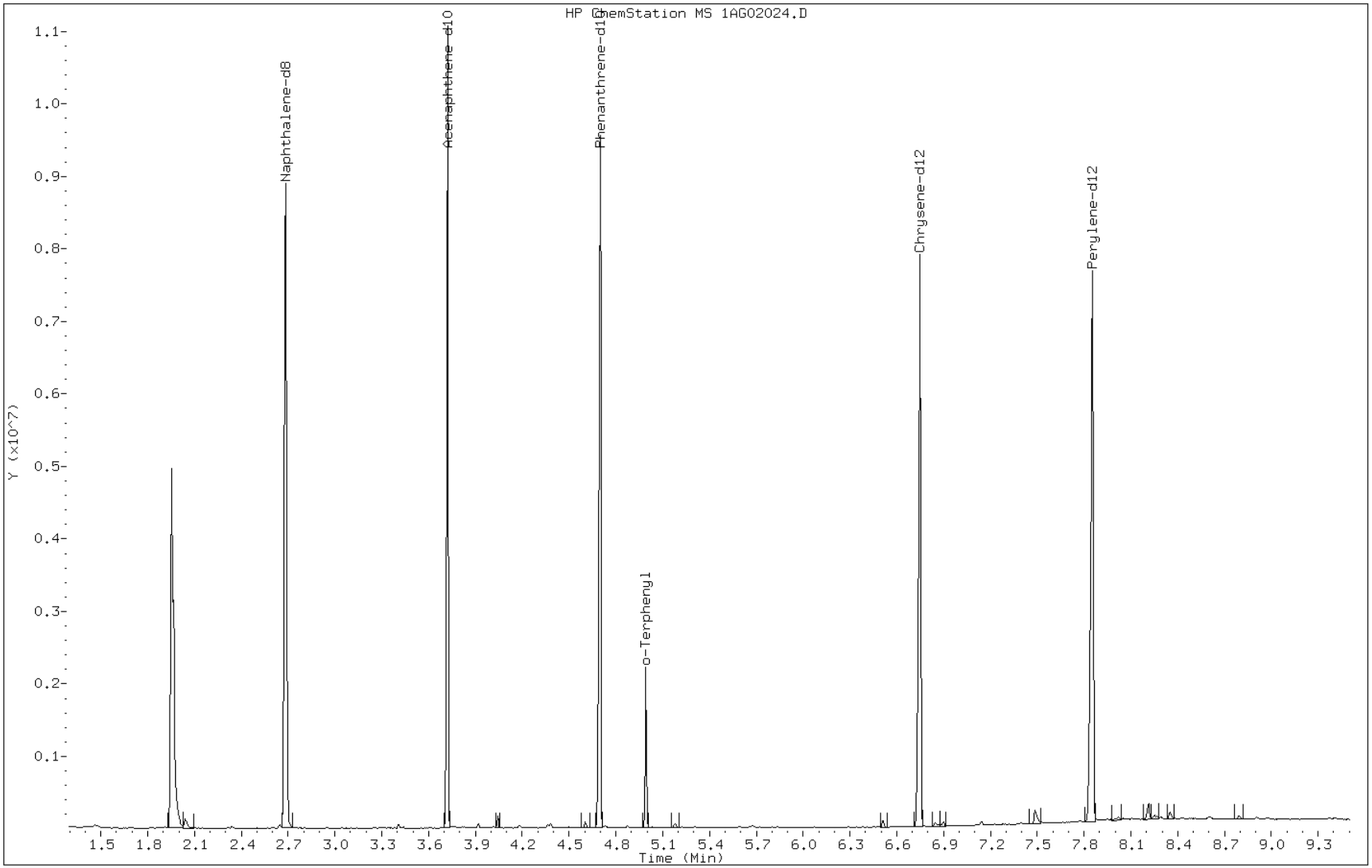
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.684	2.683	(1.000)	3901683	40.0000	
* 7 Acenaphthene-d10	164	3.721	3.719	(1.000)	2259590	40.0000	
* 11 Phenanthrene-d10	188	4.698	4.697	(1.000)	3442017	40.0000	
$ 15 o-Terphenyl	230	4.992	4.996	(1.063)	327512	4.58958	308.0258
* 19 Chrysene-d12	240	6.750	6.748	(1.000)	3367246	40.0000	
* 24 Perylene-d12	264	7.856	7.849	(1.000)	3641465	40.0000	

Data File: 1AG02024.D

Date: 02-JUL-2013 17:00

Client ID: Instrument: BSMA5973.i

Sample Info: mb 660-138994/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: | Lab Sample ID: MB 660-139005/1-A

Matrix: Solid | Lab File ID: 1AG03005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 07/02/2013 07:50

Sample wt/vol: 15.02(g) | Date Analyzed: 07/03/2013 11:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139084 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.4	U	8.4	4.2
56-55-3	Benzo[a]anthracene	8.0	U	8.0	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	8.0	U	8.0	3.6
218-01-9	Chrysene	9.0	U	9.0	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	8.0	U	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	50		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03005.D
Lab Smp Id: MB 660-139005/1-A
Inj Date : 03-JUL-2013 11:53
Operator : SCC Inst ID: BSMA5973.i
Smp Info : MB 660-139005/1-A
Misc Info : 1.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

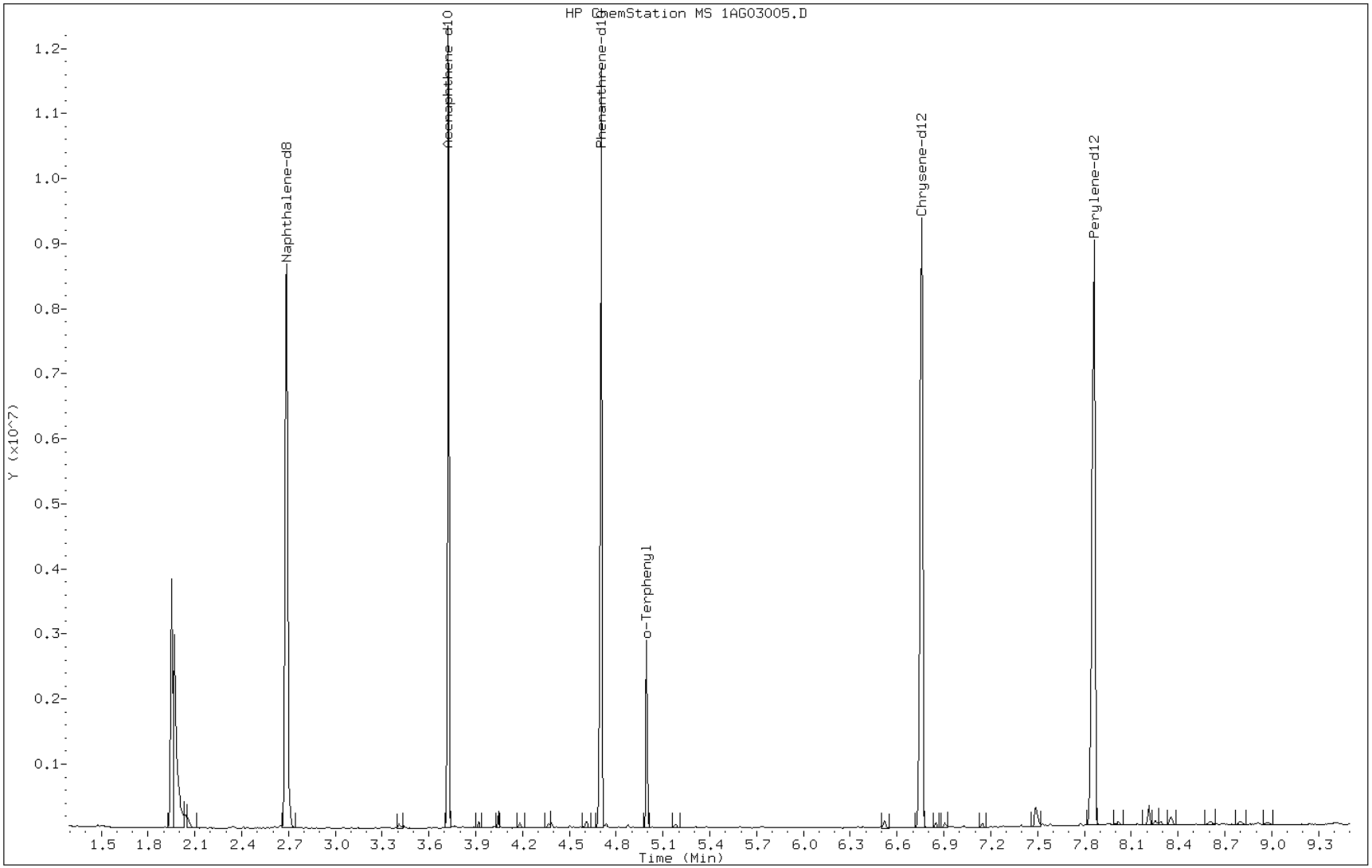
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.688	2.689	(1.000)	4694426	40.0000	
* 7 Acenaphthene-d10	164	3.724	3.725	(1.000)	2726990	40.0000	
* 11 Phenanthrene-d10	188	4.707	4.703	(1.000)	4206426	40.0000	
$ 15 o-Terphenyl	230	4.995	4.996	(1.061)	432945	5.00304	333.0918
* 19 Chrysene-d12	240	6.758	6.759	(1.000)	4602052	40.0000	
* 24 Perylene-d12	264	7.864	7.860	(1.000)	4704774	40.0000	

Data File: 1AG03005.D

Date: 03-JUL-2013 11:53

Client ID: Instrument: BSMA5973.i

Sample Info: MB 660-139005/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: | Lab Sample ID: MB 660-139049/1-A

Matrix: Solid | Lab File ID: 1AG03022.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 07/03/2013 07:27

Sample wt/vol: 14.96(g) | Date Analyzed: 07/03/2013 16:09

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139084 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.4	U	8.4	4.2
56-55-3	Benzo[a]anthracene	8.0	U	8.0	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	8.0	U	8.0	3.6
218-01-9	Chrysene	9.0	U	9.0	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.1
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	8.0	U	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	60		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03022.D
Lab Smp Id: MB 660-139049/1-A
Inj Date : 03-JUL-2013 16:09
Operator : SCC Inst ID: BSMA5973.i
Smp Info : MB 660-139049/1-A
Misc Info : 1.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 21 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

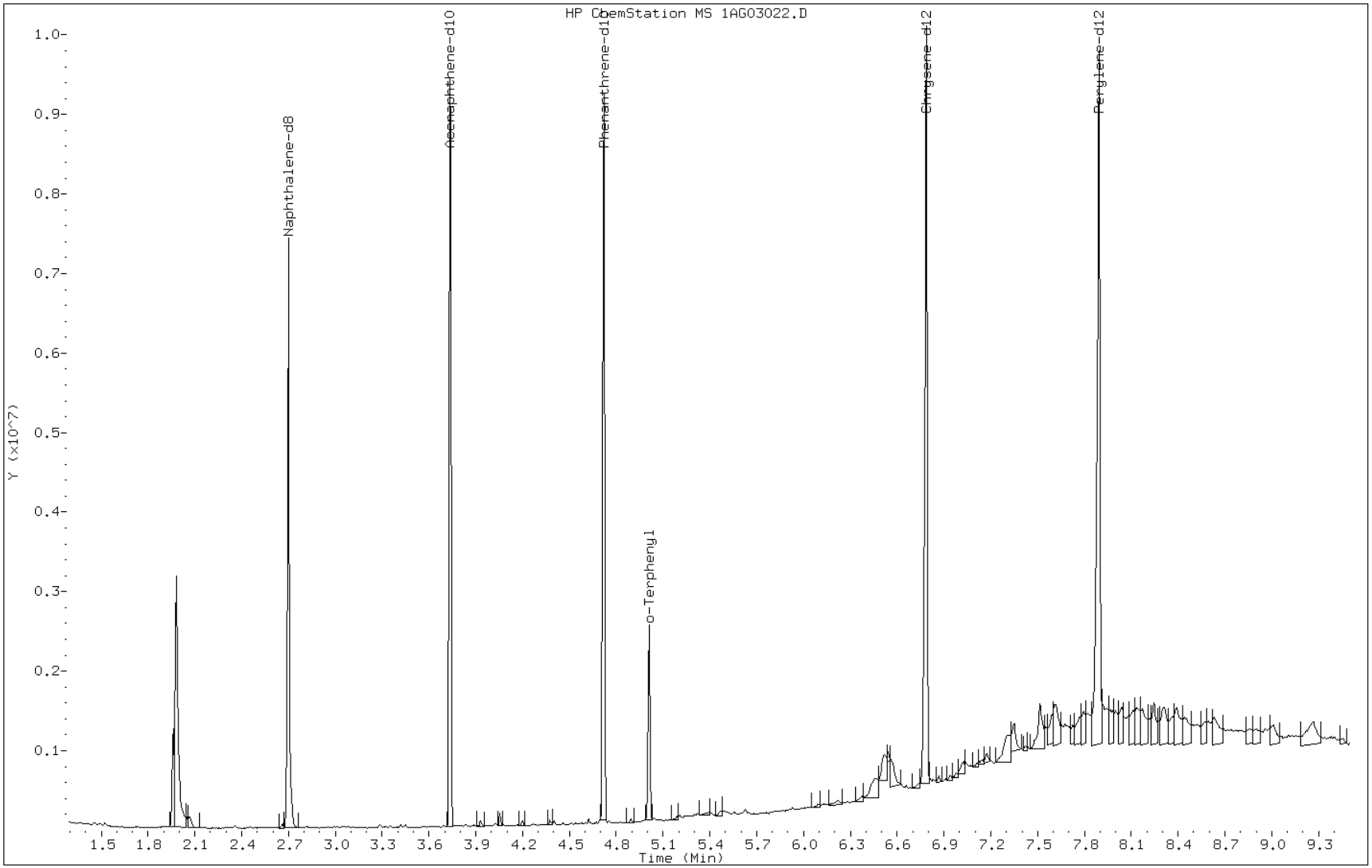
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.698	2.689	(1.000)	3228474	40.0000	
* 7 Acenaphthene-d10	164	3.734	3.725	(1.000)	1954856	40.0000	
* 11 Phenanthrene-d10	188	4.723	4.703	(1.000)	2998839	40.0000	
$ 15 o-Terphenyl	230	5.011	4.996	(1.061)	365709	6.04492	404.0720
* 19 Chrysene-d12	240	6.790	6.759	(1.000)	4126283	40.0000	
* 24 Perylene-d12	264	7.896	7.860	(1.000)	3949212	40.0000	

Data File: 1AG03022.D

Date: 03-JUL-2013 16:09

Client ID: Instrument: BSMA5973.i

Sample Info: MB 660-139049/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: | Lab Sample ID: LCS 660-138994/2-A

Matrix: Solid | Lab File ID: 1AG02025.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 07/01/2013 13:43

Sample wt/vol: 14.92(g) | Date Analyzed: 07/02/2013 17:16

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139030 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	326		100	20
208-96-8	Acenaphthylene	309		40	5.0
120-12-7	Anthracene	355		8.4	4.2
56-55-3	Benzo[a]anthracene	406		8.0	3.9
50-32-8	Benzo[a]pyrene	409		10	5.2
205-99-2	Benzo[b]fluoranthene	391		12	6.1
191-24-2	Benzo[g,h,i]perylene	471		20	4.4
207-08-9	Benzo[k]fluoranthene	388		8.0	3.6
218-01-9	Chrysene	400		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	465		20	4.1
206-44-0	Fluoranthene	366		20	4.0
86-73-7	Fluorene	334		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	520		20	7.1
90-12-0	1-Methylnaphthalene	383		40	4.4
91-57-6	2-Methylnaphthalene	400		40	7.1
91-20-3	Naphthalene	432		40	4.4
85-01-8	Phenanthrene	358		8.0	3.9
129-00-0	Pyrene	395		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	57		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\1AG02025.D
Lab Smp Id: lcs 660-138994/2-a
Inj Date : 02-JUL-2013 17:16
Operator : SCC Inst ID: BSMA5973.i
Smp Info : lcs 660-138994/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\a-bFASTPAHi-m.m
Meth Date : 02-Jul-2013 11:39 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 25 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.920	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.683	2.683	(1.000)	3261686	40.0000	
* 7 Acenaphthene-d10	164	3.725	3.719	(1.000)	1901674	40.0000	
* 11 Phenanthrene-d10	188	4.697	4.697	(1.000)	2972046	40.0000	
$ 15 o-Terphenyl	230	4.991	4.996	(1.063)	345782	5.73353	384.2850
* 19 Chrysene-d12	240	6.749	6.748	(1.000)	2876132	40.0000	
* 24 Perylene-d12	264	7.849	7.849	(1.000)	3159656	40.0000	
2 Naphthalene	128	2.694	2.699	(1.004)	548906	6.44545	432.0003
3 2-Methylnaphthalene	141	3.100	3.105	(1.155)	343077	5.96368	399.7102
4 1-Methylnaphthalene	142	3.159	3.158	(1.177)	386897	5.70852	382.6087
6 Acenaphthylene	152	3.634	3.634	(0.976)	612623	4.61191	309.1090
8 Acenaphthene	154	3.741	3.741	(1.004)	333497	4.87125	326.4914
10 Fluorene	166	4.061	4.061	(1.090)	453723	4.98429	334.0678
12 Phenanthrene	178	4.713	4.713	(1.003)	558082	5.34038	357.9341
13 Anthracene	178	4.745	4.745	(1.010)	593432	5.30191	355.3557

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Fluoranthene	202	5.595	5.594	(1.191)	687076	5.45748	365.7826
17 Pyrene	202	5.760	5.765	(0.854)	684129	5.89993	395.4373
18 Benzo(a)anthracene	228	6.738	6.738	(0.998)	594783	6.05138	405.5881
20 Chrysene	228	6.765	6.764	(1.002)	561710	5.96252	399.6328
21 Benzo(b)fluoranthene	252	7.566	7.571	(0.964)	583544	5.83521	391.0999
22 Benzo(k)fluoranthene	252	7.582	7.592	(0.966)	669450	5.78672	387.8501
23 Benzo(a)pyrene	252	7.790	7.801	(0.993)	570991	6.10936	409.4746
25 Indeno(1,2,3-cd)pyrene	276	8.688	8.698	(1.107)	647822	7.76474	520.4251(H)
26 Dibenzo(a,h)anthracene	278	8.714	8.725	(1.110)	573716	6.93959	465.1197
27 Benzo(g,h,i)perylene	276	8.933	8.949	(1.138)	624010	7.02383	470.7663

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1AG02025.D

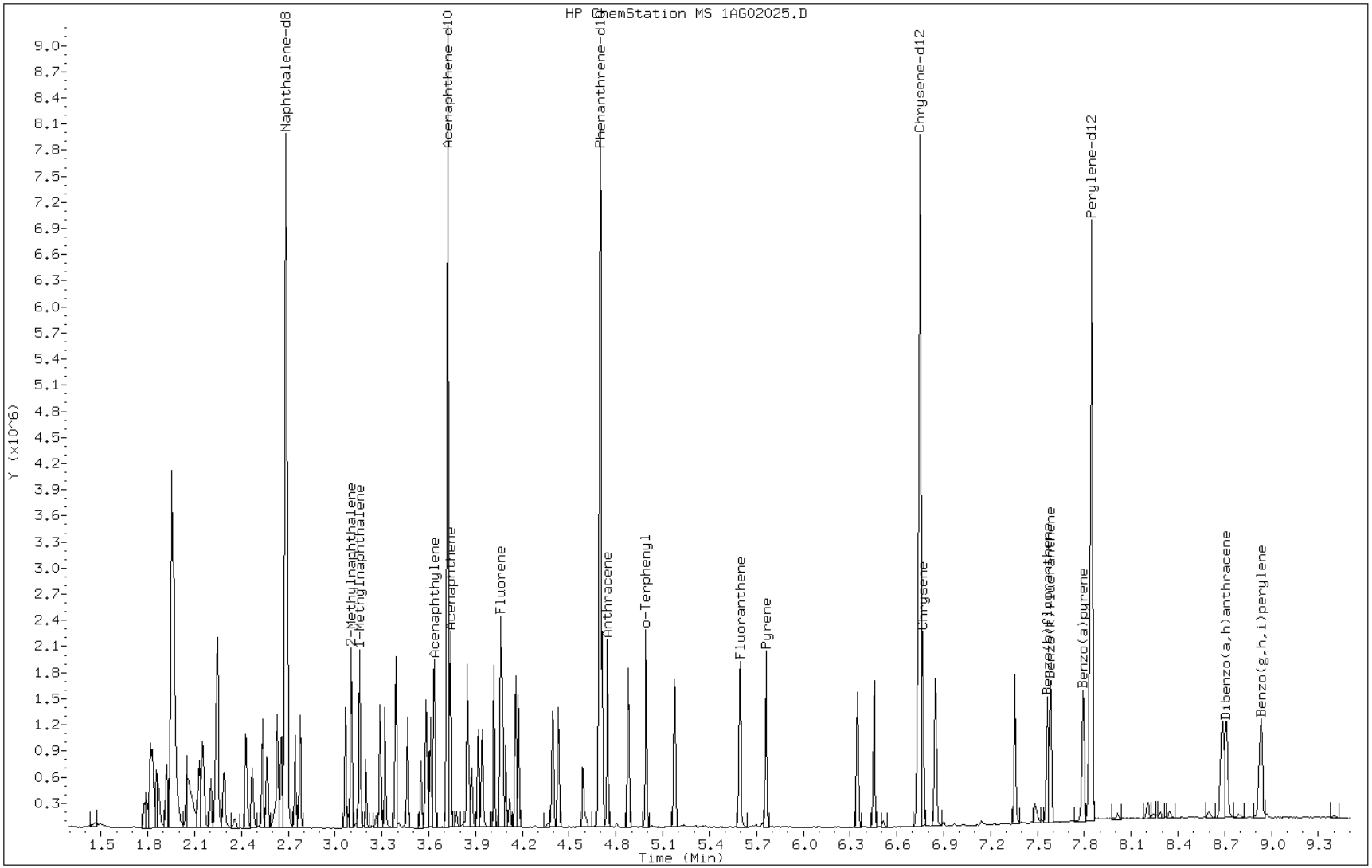
Date: 02-JUL-2013 17:16

Client ID:

Instrument: BSMA5973.i

Sample Info: lcs 660-138994/2-a

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-91719-1
SDG No.: 68091719-1
Client Sample ID:
Lab Sample ID: LCS 660-139005/2-A
Matrix: Solid
Lab File ID: 1AG03006.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 07/02/2013 07:50
Sample wt/vol: 14.98(g)
Date Analyzed: 07/03/2013 12:08
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 139084
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	307		100	20
208-96-8	Acenaphthylene	283		40	5.0
120-12-7	Anthracene	340		8.4	4.2
56-55-3	Benzo[a]anthracene	386		8.0	3.9
50-32-8	Benzo[a]pyrene	368		10	5.2
205-99-2	Benzo[b]fluoranthene	364		12	6.1
191-24-2	Benzo[g,h,i]perylene	344		20	4.4
207-08-9	Benzo[k]fluoranthene	345		8.0	3.6
218-01-9	Chrysene	361		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	357		20	4.1
206-44-0	Fluoranthene	341		20	4.0
86-73-7	Fluorene	306		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	395		20	7.1
90-12-0	1-Methylnaphthalene	356		40	4.4
91-57-6	2-Methylnaphthalene	363		40	7.1
91-20-3	Naphthalene	399		40	4.4
85-01-8	Phenanthrene	346		8.0	3.9
129-00-0	Pyrene	351		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	54		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03006.D
Lab Smp Id: LCS 660-139005/2-A
Inj Date : 03-JUL-2013 12:08
Operator : SCC Inst ID: BSMA5973.i
Smp Info : LCS 660-139005/2-A
Misc Info : 1.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.691	2.689	(1.000)	3949971	40.0000	
* 7 Acenaphthene-d10	164	3.727	3.725	(1.000)	2315531	40.0000	
* 11 Phenanthrene-d10	188	4.705	4.703	(1.000)	3803588	40.0000	
$ 15 o-Terphenyl	230	4.999	4.996	(1.062)	417325	5.37022	358.4924
* 19 Chrysene-d12	240	6.761	6.759	(1.000)	3947212	40.0000	
* 24 Perylene-d12	264	7.862	7.860	(1.000)	4209981	40.0000	
2 Naphthalene	128	2.701	2.705	(1.004)	616032	5.97319	398.7444
3 2-Methylnaphthalene	141	3.107	3.105	(1.155)	381438	5.43157	362.5882
4 1-Methylnaphthalene	142	3.161	3.164	(1.175)	440619	5.33133	355.8963
6 Acenaphthylene	152	3.636	3.634	(0.976)	690265	4.24063	283.0857
8 Acenaphthene	154	3.743	3.746	(1.004)	385017	4.59687	306.8668
10 Fluorene	166	4.064	4.067	(1.090)	510488	4.57741	305.5680
12 Phenanthrene	178	4.715	4.719	(1.002)	694871	5.18193	345.9235
13 Anthracene	178	4.753	4.756	(1.010)	731297	5.08921	339.7336

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Fluoranthene	202	5.597	5.600	(1.190)	825786	5.10308	340.6594
17 Pyrene	202	5.768	5.771	(0.853)	836009	5.25337	350.6921
18 Benzo(a)anthracene	228	6.745	6.743	(0.998)	780687	5.78329	386.0673
20 Chrysene	228	6.772	6.781	(1.002)	699208	5.40807	361.0195
21 Benzo(b)fluoranthene	252	7.573	7.577	(0.963)	726379	5.45137	363.9100
22 Benzo(k)fluoranthene	252	7.590	7.598	(0.965)	800592	5.16557	344.8312
23 Benzo(a)pyrene	252	7.803	7.812	(0.993)	687420	5.52012	368.4992
25 Indeno(1,2,3-cd)pyrene	276	8.701	8.715	(1.107)	657484	5.91448	394.8248(H)
26 Dibenzo(a,h)anthracene	278	8.722	8.741	(1.109)	589148	5.34836	357.0334
27 Benzo(g,h,i)perylene	276	8.946	8.966	(1.138)	609358	5.14772	343.6394

QC Flag Legend

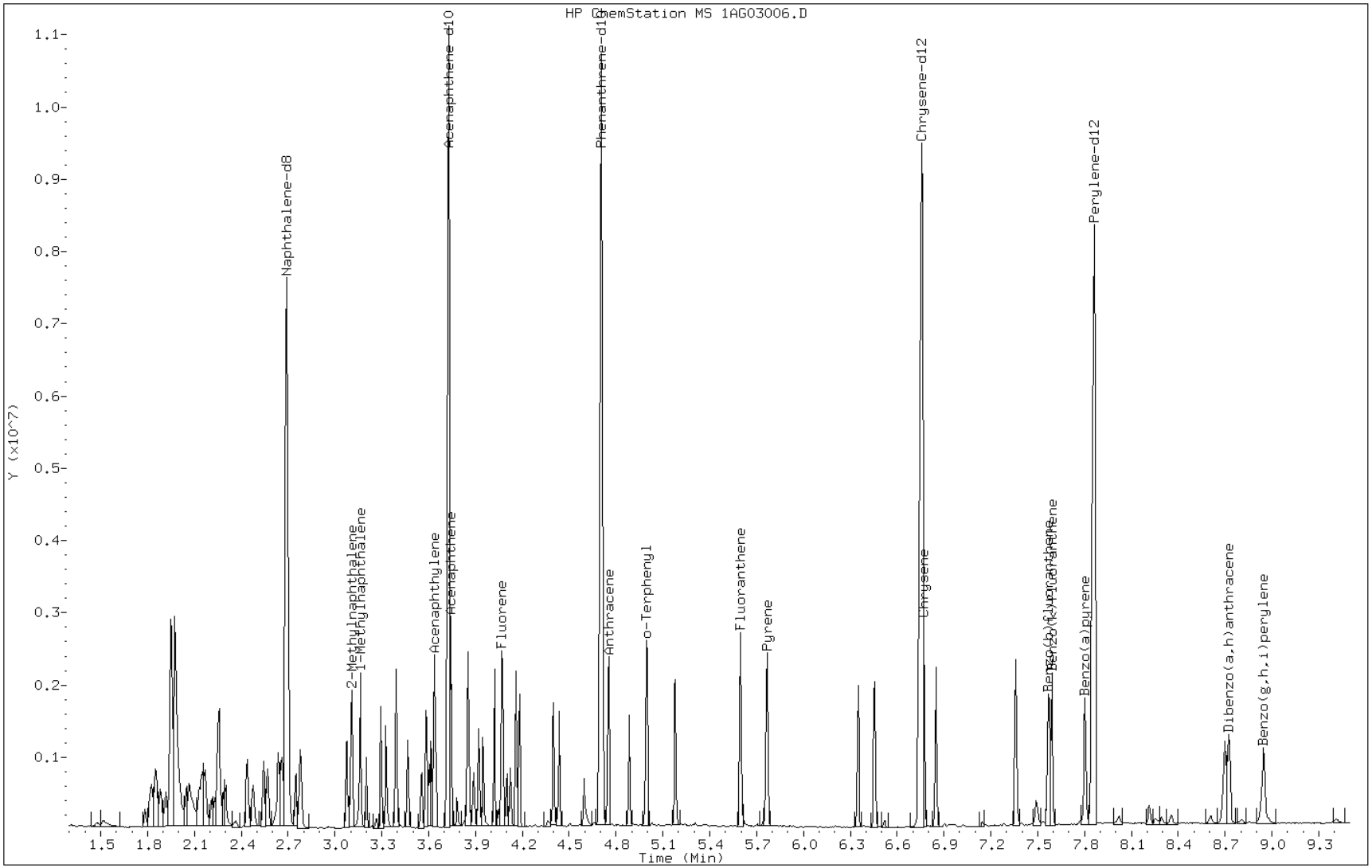
H - Operator selected an alternate compound hit.

Data File: 1AG03006.D

Date: 03-JUL-2013 12:08

Client ID: Instrument: BSMA5973.i

Sample Info: LCS 660-139005/2-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-91719-1
SDG No.: 68091719-1
Client Sample ID:
Lab Sample ID: LCS 660-139049/2-A
Matrix: Solid
Lab File ID: 1AG03023.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 07/03/2013 07:27
Sample wt/vol: 15.15(g)
Date Analyzed: 07/03/2013 16:24
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 139084
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	322		99	20
208-96-8	Acenaphthylene	311		40	5.0
120-12-7	Anthracene	376		8.3	4.2
56-55-3	Benzo[a]anthracene	462		7.9	3.9
50-32-8	Benzo[a]pyrene	393		10	5.1
205-99-2	Benzo[b]fluoranthene	450		12	6.0
191-24-2	Benzo[g,h,i]perylene	225		20	4.4
207-08-9	Benzo[k]fluoranthene	412		7.9	3.6
218-01-9	Chrysene	403		8.9	4.5
53-70-3	Dibenz(a,h)anthracene	293		20	4.1
206-44-0	Fluoranthene	389		20	4.0
86-73-7	Fluorene	339		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	314		20	7.0
90-12-0	1-Methylnaphthalene	402		40	4.4
91-57-6	2-Methylnaphthalene	406		40	7.0
91-20-3	Naphthalene	450		40	4.4
85-01-8	Phenanthrene	379		7.9	3.9
129-00-0	Pyrene	329		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	58		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03023.D
Lab Smp Id: LCS 660-139049/2-A
Inj Date : 03-JUL-2013 16:24
Operator : SCC Inst ID: BSMA5973.i
Smp Info : LCS 660-139049/2-A
Misc Info : 1.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 22 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.150	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.699	2.689	(1.000)	3046365	40.0000	
* 7 Acenaphthene-d10	164	3.741	3.725	(1.000)	1884221	40.0000	
* 11 Phenanthrene-d10	188	4.724	4.703	(1.000)	3068730	40.0000	
$ 15 o-Terphenyl	230	5.012	4.996	(1.061)	363089	5.84278	385.6620
* 19 Chrysene-d12	240	6.791	6.759	(1.000)	4074454	40.0000	
* 24 Perylene-d12	264	7.891	7.860	(1.000)	3877935	40.0000	
2 Naphthalene	128	2.710	2.705	(1.004)	542848	6.82485	450.4854
3 2-Methylnaphthalene	141	3.116	3.105	(1.154)	329764	6.15521	406.2844
4 1-Methylnaphthalene	142	3.174	3.164	(1.176)	383203	6.09677	402.4272
6 Acenaphthylene	152	3.650	3.634	(0.976)	619276	4.71373	311.1372
8 Acenaphthene	154	3.757	3.746	(1.004)	331163	4.88297	322.3084
10 Fluorene	166	4.077	4.067	(1.090)	462506	5.14069	339.3193
12 Phenanthrene	178	4.734	4.719	(1.002)	615128	5.73941	378.8390
13 Anthracene	178	4.766	4.756	(1.009)	654224	5.69486	375.8985

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Fluoranthene	202	5.621	5.600	(1.190)	761849	5.89399	389.0423
17 Pyrene	202	5.792	5.771	(0.853)	819402	4.98821	329.2549
18 Benzo(a)anthracene	228	6.780	6.743	(0.998)	972308	6.99781	461.9015
20 Chrysene	228	6.807	6.781	(1.002)	814578	6.10365	402.8814
21 Benzo(b)fluoranthene	252	7.603	7.577	(0.963)	836454	6.81497	449.8333
22 Benzo(k)fluoranthene	252	7.624	7.598	(0.966)	882247	6.24060	411.9211
23 Benzo(a)pyrene	252	7.838	7.812	(0.993)	682099	5.94639	392.5008
25 Indeno(1,2,3-cd)pyrene	276	8.751	8.715	(1.109)	486974	4.75572	313.9090(M)
26 Dibenzo(a,h)anthracene	278	8.778	8.741	(1.112)	450361	4.43850	292.9705
27 Benzo(g,h,i)perylene	276	9.003	8.966	(1.141)	371350	3.40569	224.7981

QC Flag Legend

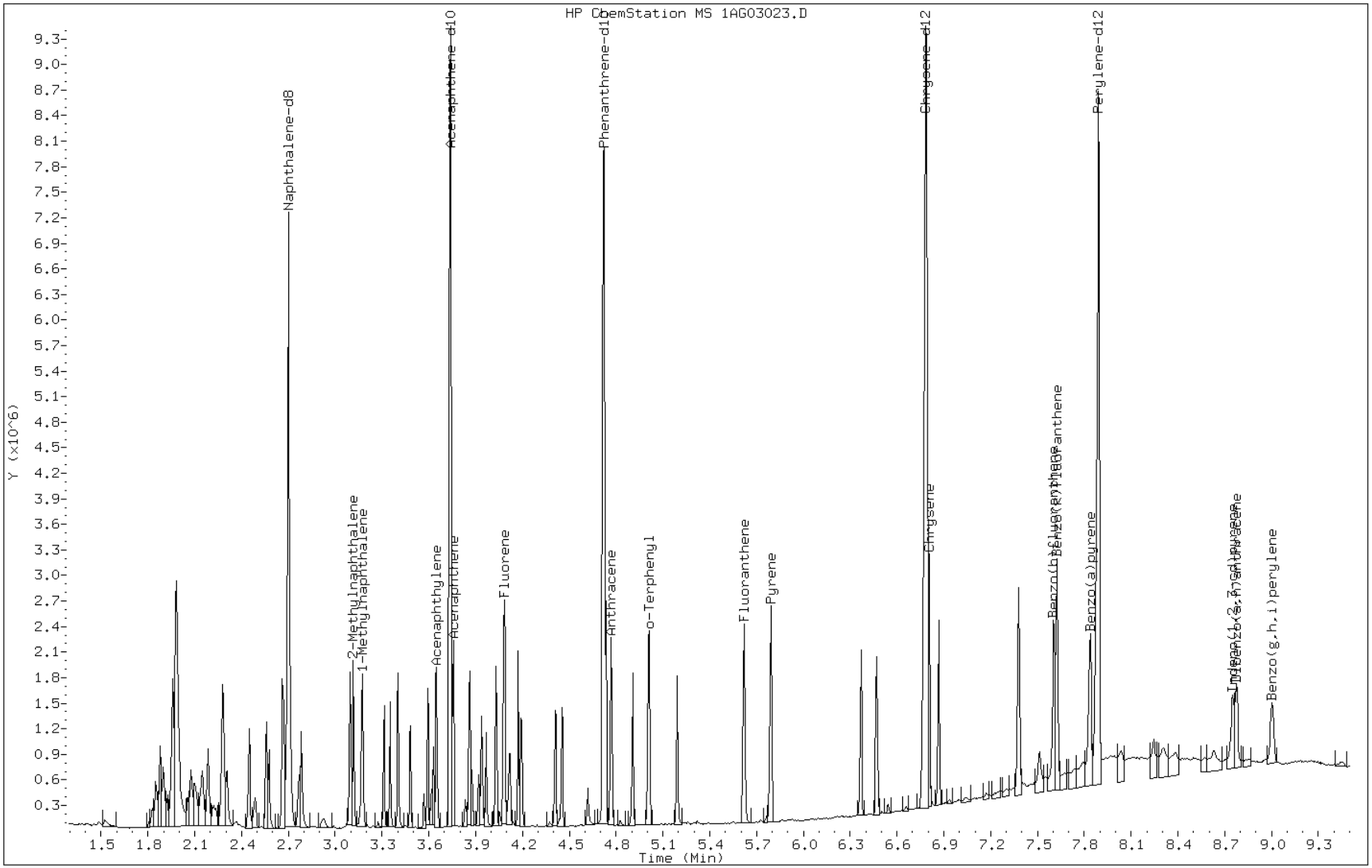
M - Compound response manually integrated.

Data File: 1AG03023.D

Date: 03-JUL-2013 16:24

Client ID: Instrument: BSMA5973.i

Sample Info: LCS 660-139049/2-A Operator: SCC



Manual Integration Report

Data File: 1AG03023.D
Inj. Date and Time: 03-JUL-2013 16:24
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/05/2013

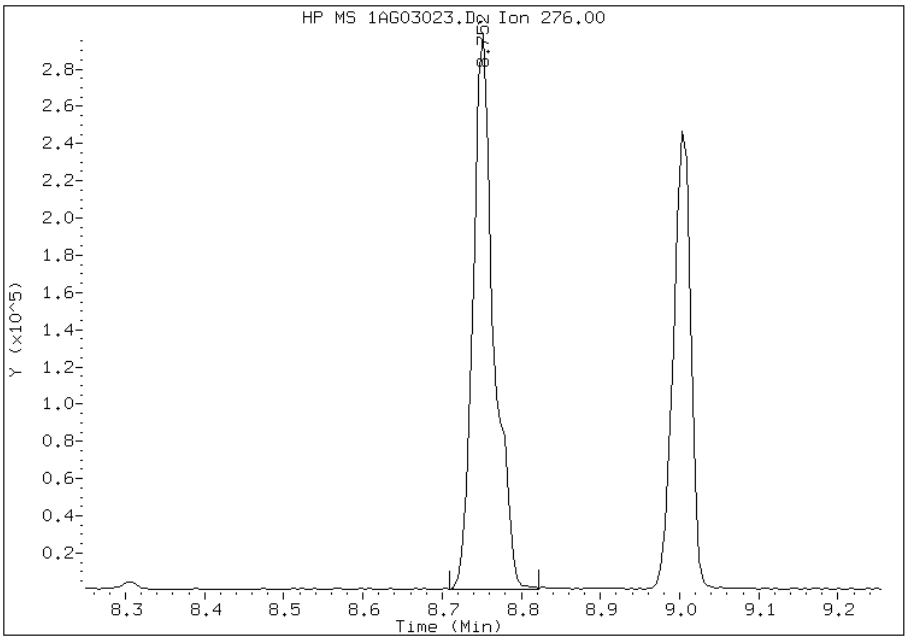
Processing Integration Results

RT: 8.75

Response: 538409

Amount: 5

Conc: 347



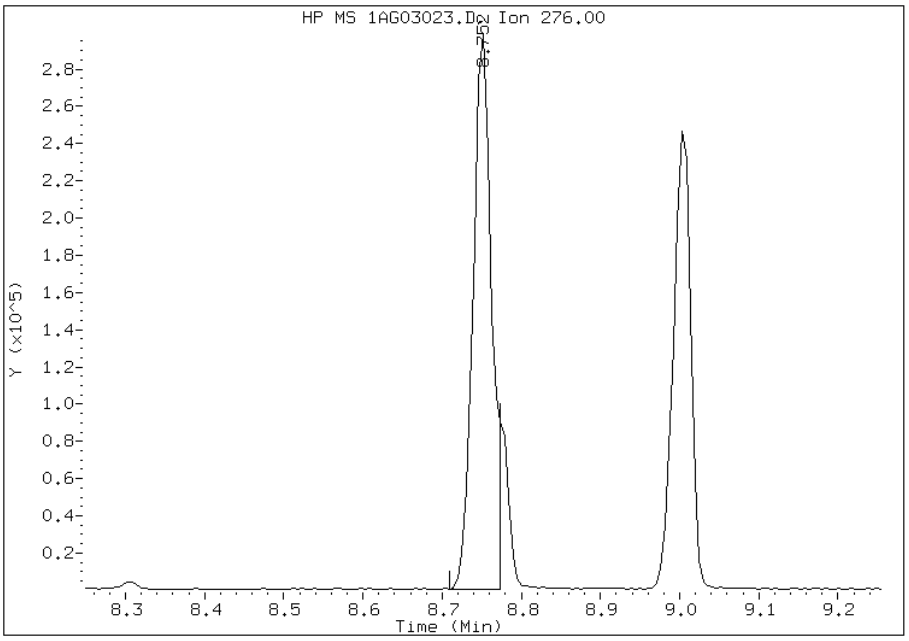
Manual Integration Results

RT: 8.75

Response: 486974

Amount: 5

Conc: 314



Manually Integrated By: cantins
Modification Date: 05-Jul-2013 10:59
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: | Lab Sample ID: 680-91719-A-21-B MS

Matrix: Solid | Lab File ID: 1AG03020.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 07/02/2013 07:50

Sample wt/vol: 15.33(g) | Date Analyzed: 07/03/2013 15:39

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139084 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	342		110	23
208-96-8	Acenaphthylene	340		45	5.7
120-12-7	Anthracene	502		9.5	4.7
56-55-3	Benzo[a]anthracene	848		9.0	4.4
50-32-8	Benzo[a]pyrene	763		12	5.9
205-99-2	Benzo[b]fluoranthene	1370		14	6.9
191-24-2	Benzo[g,h,i]perylene	378		23	5.0
207-08-9	Benzo[k]fluoranthene	481		9.0	4.1
218-01-9	Chrysene	944		10	5.1
53-70-3	Dibenz(a,h)anthracene	333		23	4.6
206-44-0	Fluoranthene	1490		23	4.5
86-73-7	Fluorene	340		23	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	496		23	8.0
90-12-0	1-Methylnaphthalene	469		45	5.0
91-57-6	2-Methylnaphthalene	520		45	8.0
91-20-3	Naphthalene	584		45	5.0
85-01-8	Phenanthrene	1040		9.0	4.4
129-00-0	Pyrene	905		23	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	45		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03020.D
Lab Smp Id: 680-91719-A-21-B MS
Inj Date : 03-JUL-2013 15:39
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-A-21-B MS
Misc Info : 1.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 18 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.330	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.700	2.689	(1.000)	3301952	40.0000	
* 7 Acenaphthene-d10	164	3.737	3.725	(1.000)	1940043	40.0000	
* 11 Phenanthrene-d10	188	4.720	4.703	(1.000)	3134052	40.0000	
$ 15 o-Terphenyl	230	5.008	4.996	(1.061)	291127	4.47073	291.6329
* 19 Chrysene-d12	240	6.798	6.759	(1.000)	4200266	40.0000	(H)
* 24 Perylene-d12	264	7.909	7.860	(1.000)	4129662	40.0000	(H)
2 Naphthalene	128	2.711	2.705	(1.004)	667808	7.74601	505.2842
3 2-Methylnaphthalene	141	3.117	3.105	(1.154)	395927	6.89492	449.7663
4 1-Methylnaphthalene	142	3.170	3.164	(1.174)	423112	6.22520	406.0796
6 Acenaphthylene	152	3.646	3.634	(0.976)	611570	4.50442	293.8305
8 Acenaphthene	154	3.753	3.746	(1.004)	318617	4.53572	295.8720
10 Fluorene	166	4.078	4.067	(1.091)	421289	4.50406	293.8067
12 Phenanthrene	178	4.736	4.719	(1.003)	1325133	13.7709	898.2957(R)
13 Anthracene	178	4.768	4.756	(1.010)	769325	6.65773	434.2940

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Fluoranthene	202	5.628	5.600	(1.192)	2177156	19.7536	1288.5585(R)
17 Pyrene	202	5.799	5.771	(0.853)	2033812	12.0102	783.4461
18 Benzo(a)anthracene	228	6.787	6.743	(0.998)	1602185	11.2435	733.4296(H)
20 Chrysene	228	6.814	6.781	(1.002)	1723550	12.5278	817.2060(H)
21 Benzo(b)fluoranthene	252	7.626	7.577	(0.964)	2376409	18.1815	1186.0070(R)
22 Benzo(k)fluoranthene	252	7.642	7.598	(0.966)	958423	6.37461	415.8259(H)
23 Benzo(a)pyrene	252	7.855	7.812	(0.993)	1236549	10.1229	660.3300(H)
25 Indeno(1,2,3-cd)pyrene	276	8.790	8.715	(1.111)	717958	6.58409	429.4905(MH)
26 Dibenzo(a,h)anthracene	278	8.812	8.741	(1.114)	477040	4.41486	287.9881(H)
27 Benzo(g,h,i)perylene	276	9.052	8.966	(1.145)	581433	5.00735	326.6370(H)

QC Flag Legend

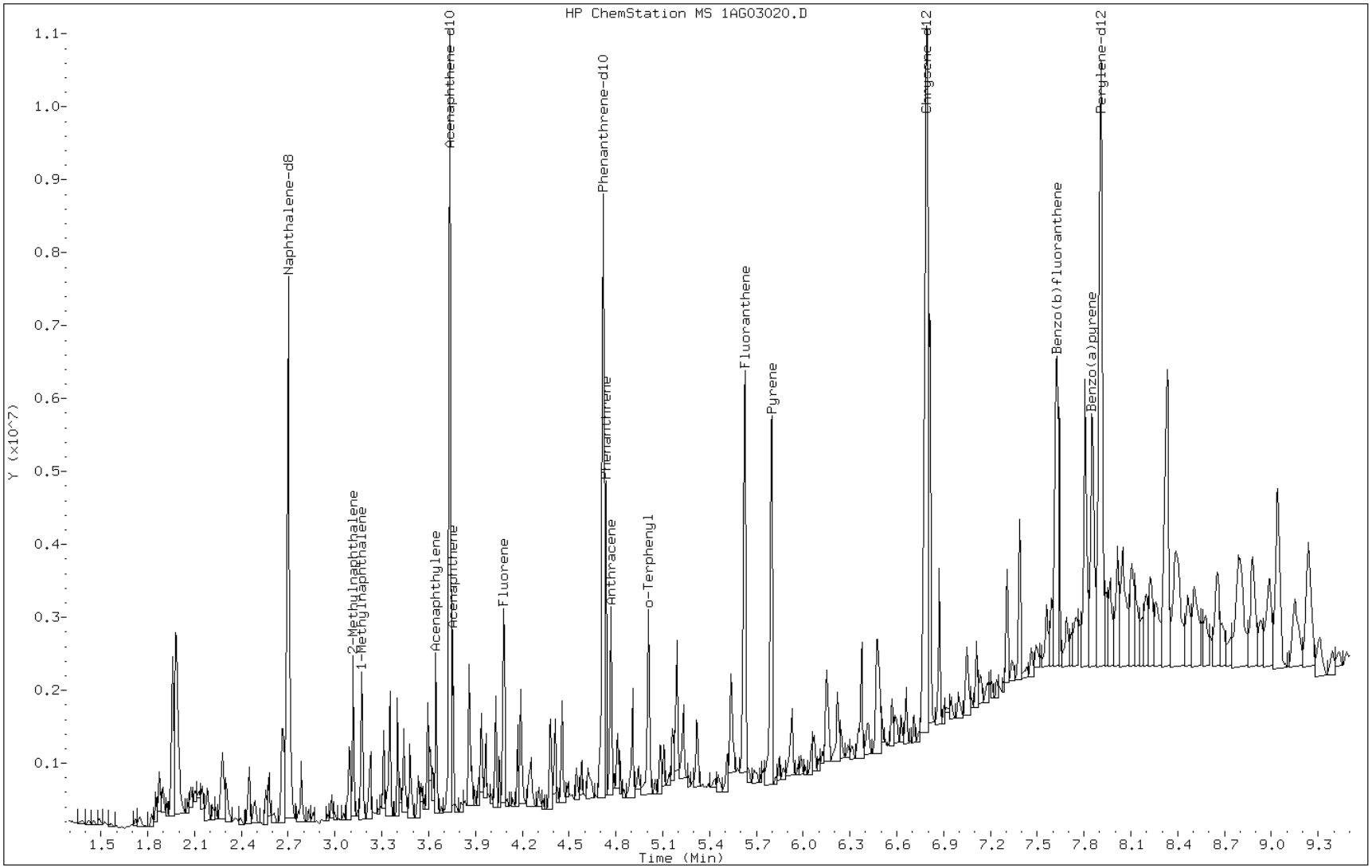
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG03020.D

Date: 03-JUL-2013 15:39

Client ID: Instrument: BSMA5973.i

Sample Info: 680-91719-A-21-B MS Operator: SCC



Manual Integration Report

Data File: 1AG03020.D
Inj. Date and Time: 03-JUL-2013 15:39
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

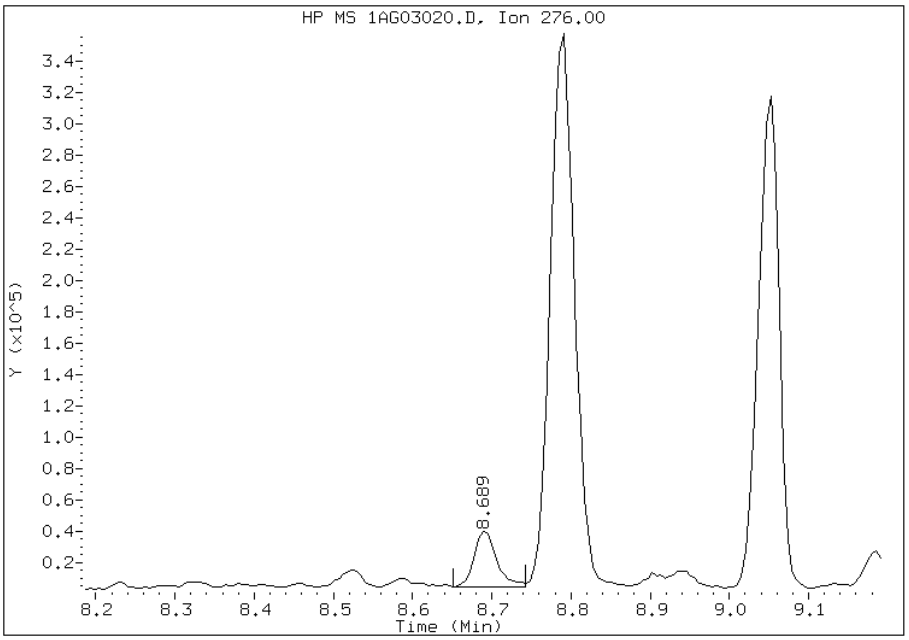
Processing Integration Results

RT: 8.69

Response: 69038

Amount: 1

Conc: 41



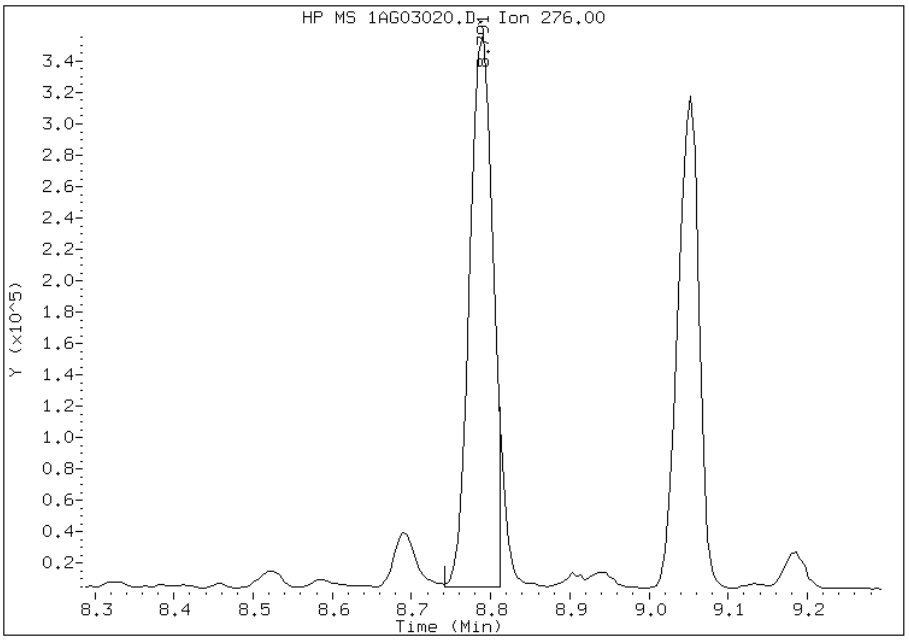
Manual Integration Results

RT: 8.79

Response: 717958

Amount: 7

Conc: 429



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363AB-GS MS | Lab Sample ID: 680-91719-1 MS

Matrix: Solid | Lab File ID: 1AG02040.D

Analysis Method: 8270C LL | Date Collected: 06/24/2013 12:45

Extract. Method: 3546 | Date Extracted: 07/01/2013 13:43

Sample wt/vol: 15.02(g) | Date Analyzed: 07/02/2013 21:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 30.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139030 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	331	J	570	110
208-96-8	Acenaphthylene	344		230	29
120-12-7	Anthracene	427		48	24
56-55-3	Benzo[a]anthracene	550		46	22
50-32-8	Benzo[a]pyrene	533		60	30
205-99-2	Benzo[b]fluoranthene	749		70	35
191-24-2	Benzo[g,h,i]perylene	456		110	25
207-08-9	Benzo[k]fluoranthene	494		46	21
218-01-9	Chrysene	691		52	26
53-70-3	Dibenz(a,h)anthracene	384		110	24
206-44-0	Fluoranthene	662		110	23
86-73-7	Fluorene	357		110	24
193-39-5	Indeno[1,2,3-cd]pyrene	506		110	41
90-12-0	1-Methylnaphthalene	445		230	25
91-57-6	2-Methylnaphthalene	480		230	41
91-20-3	Naphthalene	538		230	25
85-01-8	Phenanthrene	582		46	22
129-00-0	Pyrene	509		110	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	34		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\1AG02040.D
Lab Smp Id: 680-91719-a-1-b ms
Inj Date : 02-JUL-2013 21:01
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-a-1-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\a-bFASTPAHi-m.m
Meth Date : 02-Jul-2013 11:39 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 40 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.693	2.683	(1.000)	2505024	40.0000	
* 7 Acenaphthene-d10	164	3.730	3.719	(1.000)	1429066	40.0000	
* 11 Phenanthrene-d10	188	4.707	4.697	(1.000)	2196702	40.0000	
$ 15 o-Terphenyl	230	5.001	4.996	(1.062)	38537	0.85103	226.6392
* 19 Chrysene-d12	240	6.769	6.748	(1.000)	2915396	40.0000	
* 24 Perylene-d12	264	7.870	7.849	(1.000)	3511815	40.0000	
2 Naphthalene	128	2.704	2.699	(1.004)	91914	1.40529	374.2457
3 2-Methylnaphthalene	141	3.110	3.105	(1.155)	56517	1.25386	333.9187
4 1-Methylnaphthalene	142	3.163	3.158	(1.175)	63014	1.16176	309.3904
6 Acenaphthylene	152	3.639	3.634	(0.976)	79746	0.89941	239.5239(R)
8 Acenaphthene	154	3.746	3.741	(1.004)	38306	0.86416	230.1359(R)
10 Fluorene	166	4.066	4.061	(1.090)	53205	0.93188	248.1701(R)
12 Phenanthrene	178	4.718	4.713	(1.002)	119249	1.52175	405.2607
13 Anthracene	178	4.755	4.745	(1.010)	87563	1.11646	297.3271

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Fluoranthene	202	5.605	5.594	(1.191)	158995	1.73062	460.8854
17 Pyrene	202	5.776	5.765	(0.853)	156330	1.33003	354.2029
18 Benzo(a)anthracene	228	6.759	6.738	(0.998)	150386	1.43698	382.6848
20 Chrysene	228	6.780	6.764	(1.002)	172337	1.80471	480.6153
21 Benzo(b)fluoranthene	252	7.581	7.571	(0.963)	217373	1.95568	520.8189
22 Benzo(k)fluoranthene	252	7.603	7.592	(0.966)	158233	1.29014	343.5788
23 Benzo(a)pyrene	252	7.811	7.801	(0.993)	144544	1.39147	370.5653
25 Indeno(1,2,3-cd)pyrene	276	8.719	8.698	(1.108)	122663	1.32280	352.2761(M)
26 Dibenzo(a,h)anthracene	278	8.746	8.725	(1.111)	92226	1.00369	267.2933
27 Benzo(g,h,i)perylene	276	8.970	8.949	(1.140)	117624	1.19121	317.2319

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1AG02040.D

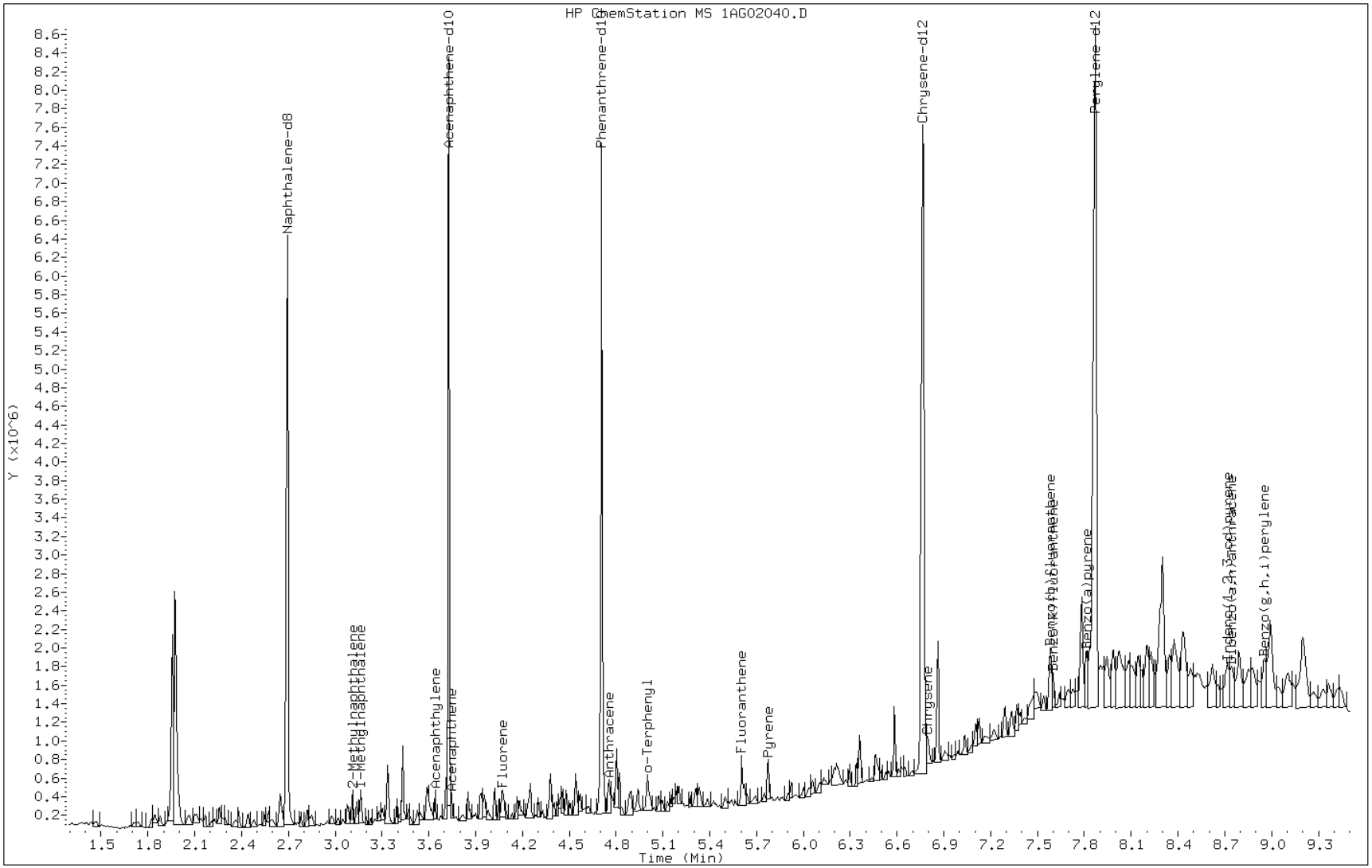
Date: 02-JUL-2013 21:01

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-91719-a-1-b ms

Operator: SCC



Manual Integration Report

Data File: 1AG02040.D
Inj. Date and Time: 02-JUL-2013 21:01
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/03/2013

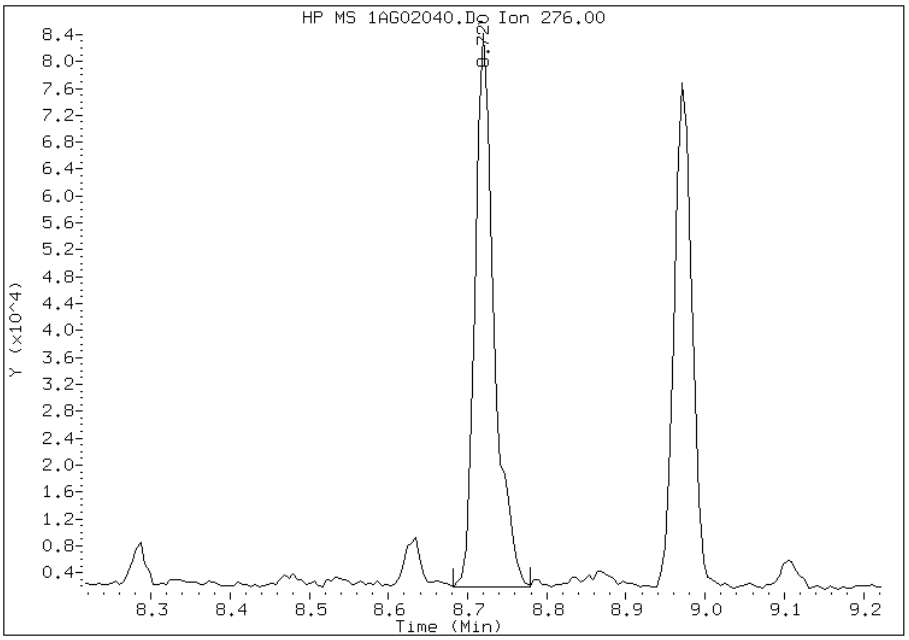
Processing Integration Results

RT: 8.72

Response: 136189

Amount: 1

Conc: 391



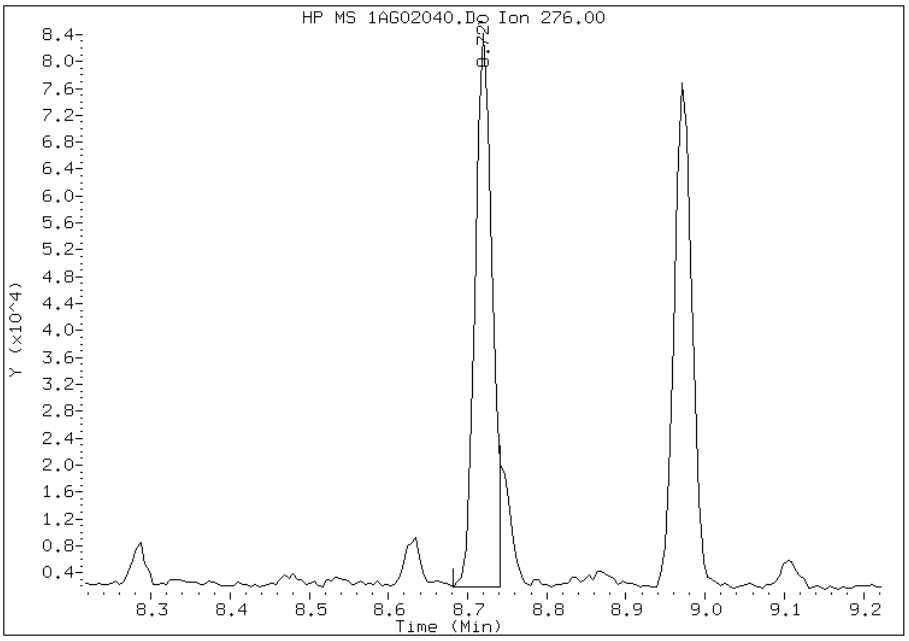
Manual Integration Results

RT: 8.72

Response: 122663

Amount: 1

Conc: 352



Manually Integrated By: cantins
Modification Date: 03-Jul-2013 15:51
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363K-CS MS | Lab Sample ID: 680-91719-17 MS

Matrix: Solid | Lab File ID: 1AG03026.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 08:19

Extract. Method: 3546 | Date Extracted: 07/03/2013 07:27

Sample wt/vol: 15.00(g) | Date Analyzed: 07/03/2013 17:10

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 10.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139084 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	315		110	22
208-96-8	Acenaphthylene	311		45	5.6
120-12-7	Anthracene	383		9.4	4.7
56-55-3	Benzo[a]anthracene	546		8.9	4.3
50-32-8	Benzo[a]pyrene	506		12	5.8
205-99-2	Benzo[b]fluoranthene	836		14	6.8
191-24-2	Benzo[g,h,i]perylene	262		22	4.9
207-08-9	Benzo[k]fluoranthene	393		8.9	4.0
218-01-9	Chrysene	604		10	5.0
53-70-3	Dibenz(a,h)anthracene	289		22	4.6
206-44-0	Fluoranthene	720		22	4.5
86-73-7	Fluorene	304		22	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	333		22	7.9
90-12-0	1-Methylnaphthalene	402		45	4.9
91-57-6	2-Methylnaphthalene	427		45	7.9
91-20-3	Naphthalene	448		45	4.9
85-01-8	Phenanthrene	551		8.9	4.3
129-00-0	Pyrene	492		22	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	47		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03026.D
Lab Smp Id: 680-91719-A-17-B MS
Inj Date : 03-JUL-2013 17:10
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-A-17-B MS
Misc Info : 1.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 25 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.703	2.689	(1.000)	3166795	40.0000	
* 7 Acenaphthene-d10	164	3.740	3.725	(1.000)	1853185	40.0000	
* 11 Phenanthrene-d10	188	4.722	4.703	(1.000)	3055188	40.0000	
$ 15 o-Terphenyl	230	5.011	4.996	(1.061)	294550	4.65605	310.4030
* 19 Chrysene-d12	240	6.801	6.759	(1.000)	4326163	40.0000	
* 24 Perylene-d12	264	7.906	7.860	(1.000)	4014471	40.0000	(H)
2 Naphthalene	128	2.714	2.705	(1.004)	497875	6.02140	401.4266
3 2-Methylnaphthalene	141	3.120	3.105	(1.154)	322074	5.74760	383.1732
4 1-Methylnaphthalene	142	3.173	3.164	(1.174)	357474	5.40199	360.1325
6 Acenaphthylene	152	3.649	3.634	(0.976)	546016	4.18771	279.1803
8 Acenaphthene	154	3.756	3.746	(1.004)	285849	4.23978	282.6519
10 Fluorene	166	4.081	4.067	(1.091)	366865	4.08403	272.2685
12 Phenanthrene	178	4.739	4.719	(1.003)	767955	7.40618	493.7454
13 Anthracene	178	4.771	4.756	(1.010)	593525	5.14655	343.1034

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Fluoranthene	202	5.625	5.600	(1.191)	1181258	9.68496	645.6636
17 Pyrene	202	5.796	5.771	(0.852)	1154626	6.61997	441.3310
18 Benzo(a)anthracene	228	6.790	6.743	(0.998)	1082096	7.33949	489.2991
20 Chrysene	228	6.811	6.781	(1.002)	1150901	8.12198	541.4650
21 Benzo(b)fluoranthene	252	7.623	7.577	(0.964)	1429097	11.2475	749.8335(H)
22 Benzo(k)fluoranthene	252	7.639	7.598	(0.966)	780892	5.28929	352.6192(H)
23 Benzo(a)pyrene	252	7.853	7.812	(0.993)	808678	6.81010	454.0068(H)
25 Indeno(1,2,3-cd)pyrene	276	8.788	8.715	(1.111)	474270	4.47413	298.2753(MH)
26 Dibenzo(a,h)anthracene	278	8.809	8.741	(1.114)	407752	3.88190	258.7932(H)
27 Benzo(g,h,i)perylene	276	9.050	8.966	(1.145)	398311	3.52871	235.2476(H)

QC Flag Legend

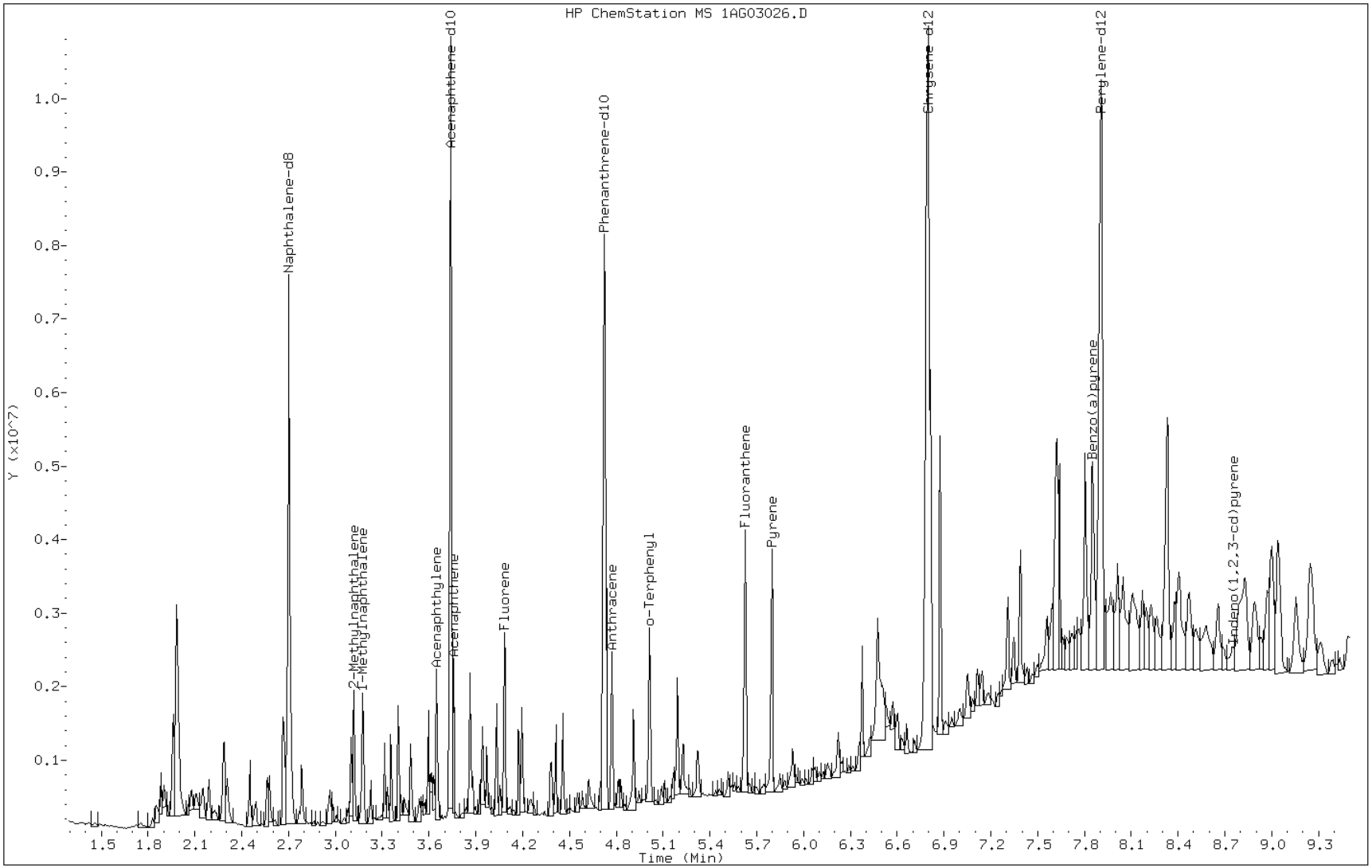
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG03026.D

Date: 03-JUL-2013 17:10

Client ID: Instrument: BSMA5973.i

Sample Info: 680-91719-A-17-B MS Operator: SCC



Manual Integration Report

Data File: 1AG03026.D
Inj. Date and Time: 03-JUL-2013 17:10
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/05/2013

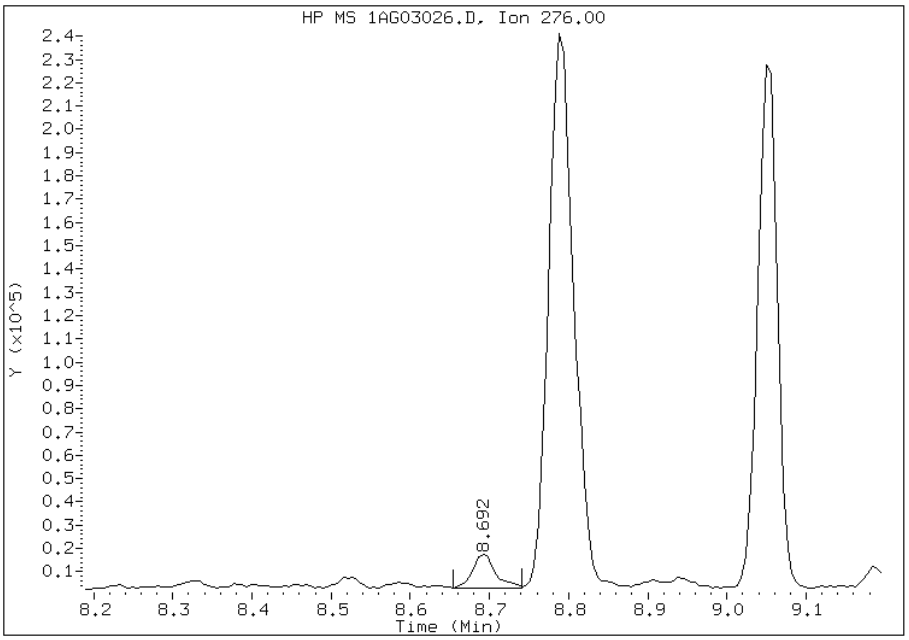
Processing Integration Results

RT: 8.69

Response: 27812

Amount: 0

Conc: 17



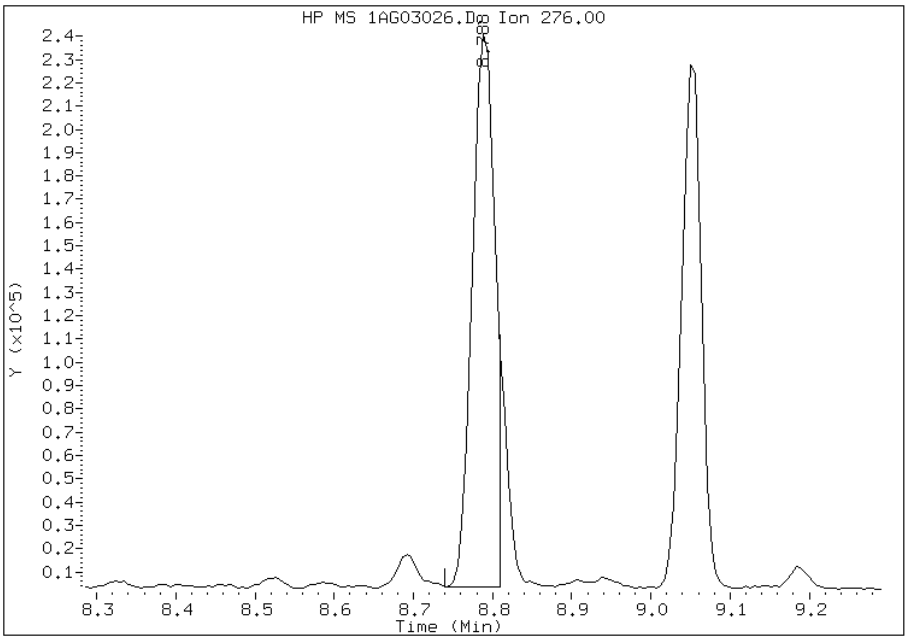
Manual Integration Results

RT: 8.79

Response: 474270

Amount: 4

Conc: 298



Manually Integrated By: cantins
Modification Date: 05-Jul-2013 11:02
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: | Lab Sample ID: 680-91719-A-21-C MSD

Matrix: Solid | Lab File ID: 1AG03021.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 07/02/2013 07:50

Sample wt/vol: 15.04(g) | Date Analyzed: 07/03/2013 15:54

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 13.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139084 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	336		120	23
208-96-8	Acenaphthylene	345		46	5.8
120-12-7	Anthracene	565		9.7	4.8
56-55-3	Benzo[a]anthracene	1040		9.2	4.5
50-32-8	Benzo[a]pyrene	919		12	6.0
205-99-2	Benzo[b]fluoranthene	1430		14	7.0
191-24-2	Benzo[g,h,i]perylene	413		23	5.1
207-08-9	Benzo[k]fluoranthene	744		9.2	4.1
218-01-9	Chrysene	1050		10	5.2
53-70-3	Dibenz(a,h)anthracene	393		23	4.7
206-44-0	Fluoranthene	2060		23	4.6
86-73-7	Fluorene	347		23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	536		23	8.2
90-12-0	1-Methylnaphthalene	484		46	5.1
91-57-6	2-Methylnaphthalene	551		46	8.2
91-20-3	Naphthalene	600		46	5.1
85-01-8	Phenanthrene	1290		9.2	4.5
129-00-0	Pyrene	1130		23	4.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	42		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03021.D
Lab Smp Id: 680-91719-A-21-C MS
Inj Date : 03-JUL-2013 15:54
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-A-21-C MSD
Misc Info : 1.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 19 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.040	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.700	2.689	(1.000)	3244404	40.0000	
* 7 Acenaphthene-d10	164	3.737	3.725	(1.000)	1955039	40.0000	
* 11 Phenanthrene-d10	188	4.725	4.703	(1.000)	3103695	40.0000	
$ 15 o-Terphenyl	230	5.008	4.996	(1.060)	272582	4.20642	279.6821
* 19 Chrysene-d12	240	6.798	6.759	(1.000)	4236456	40.0000	(H)
* 24 Perylene-d12	264	7.914	7.860	(1.000)	4002060	40.0000	(H)
2 Naphthalene	128	2.711	2.705	(1.004)	661131	7.80458	518.9217
3 2-Methylnaphthalene	141	3.117	3.105	(1.154)	403214	7.17687	477.1852
4 1-Methylnaphthalene	142	3.176	3.164	(1.176)	419777	6.29349	418.4502
6 Acenaphthylene	152	3.651	3.634	(0.977)	614939	4.49365	298.7801
8 Acenaphthene	154	3.753	3.746	(1.004)	309941	4.36628	290.3115
10 Fluorene	166	4.079	4.067	(1.091)	425821	4.51850	300.4323
12 Phenanthrene	178	4.736	4.719	(1.002)	1533802	16.7617	1114.4718(R)
13 Anthracene	178	4.773	4.756	(1.010)	831779	7.35000	488.6967

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Fluoranthene	202	5.628	5.600	(1.191)	2725406	26.8181	1783.1150(R)
17 Pyrene	202	5.799	5.771	(0.853)	2518893	14.7477	980.5652(R)
18 Benzo(a)anthracene	228	6.787	6.743	(0.998)	1936960	13.4958	897.3302(RH)
20 Chrysene	228	6.814	6.781	(1.002)	1892966	13.6416	907.0242(RH)
21 Benzo(b)fluoranthene	252	7.626	7.577	(0.964)	2352256	18.5705	1234.7410(RH)
22 Benzo(k)fluoranthene	252	7.642	7.598	(0.966)	1361661	9.67962	643.5920(H)
23 Benzo(a)pyrene	252	7.855	7.812	(0.993)	1415682	11.9588	795.1345(H)
25 Indeno(1,2,3-cd)pyrene	276	8.796	8.715	(1.111)	737232	6.97641	463.8568(MH)
26 Dibenzo(a,h)anthracene	278	8.817	8.741	(1.114)	534908	5.10825	339.6441(H)
27 Benzo(g,h,i)perylene	276	9.063	8.966	(1.145)	605284	5.37896	357.6434(H)

QC Flag Legend

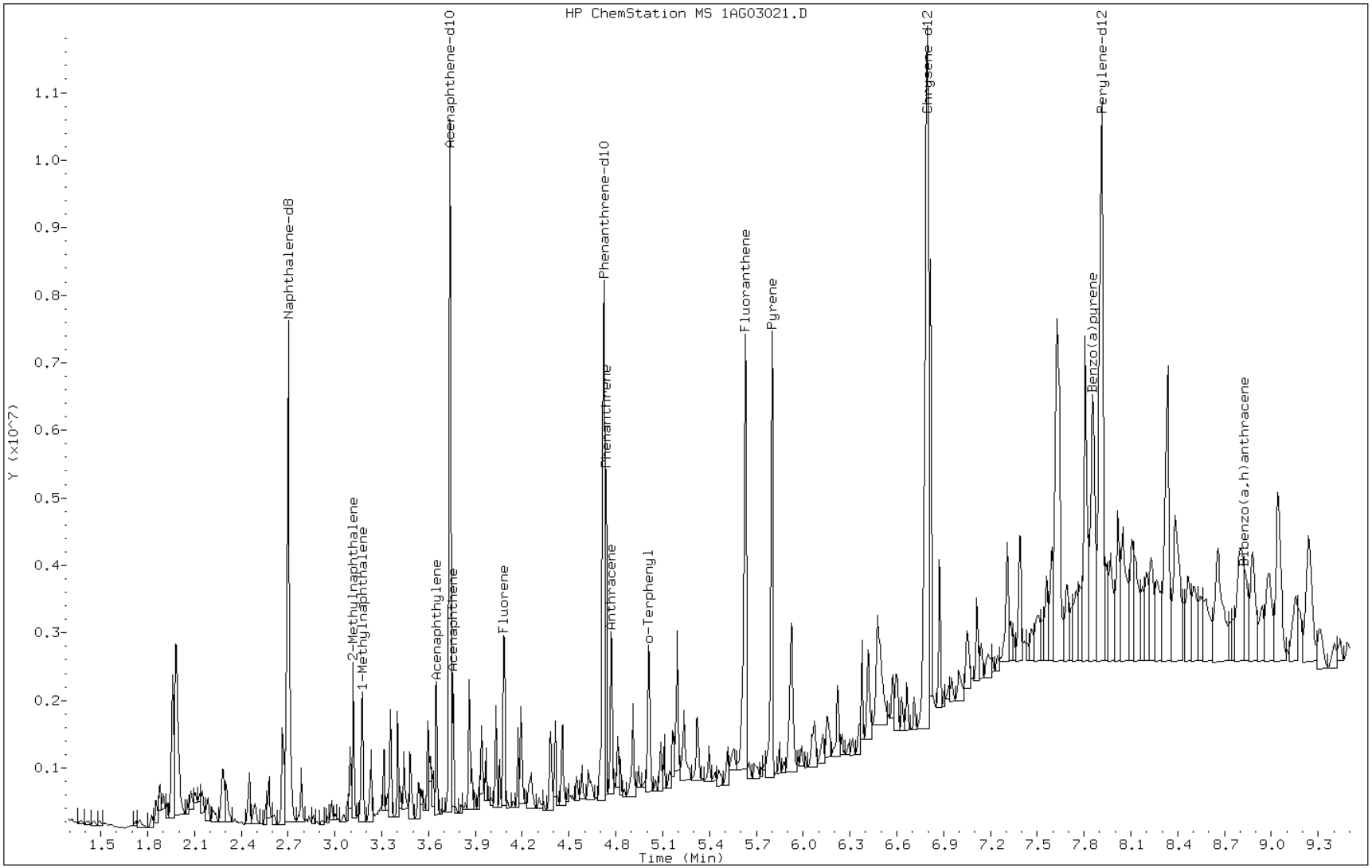
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG03021.D

Date: 03-JUL-2013 15:54

Client ID: Instrument: BSMA5973.i

Sample Info: 680-91719-A-21-C MSD Operator: SCC



Manual Integration Report

Data File: 1AG03021.D
Inj. Date and Time: 03-JUL-2013 15:54
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/08/2013

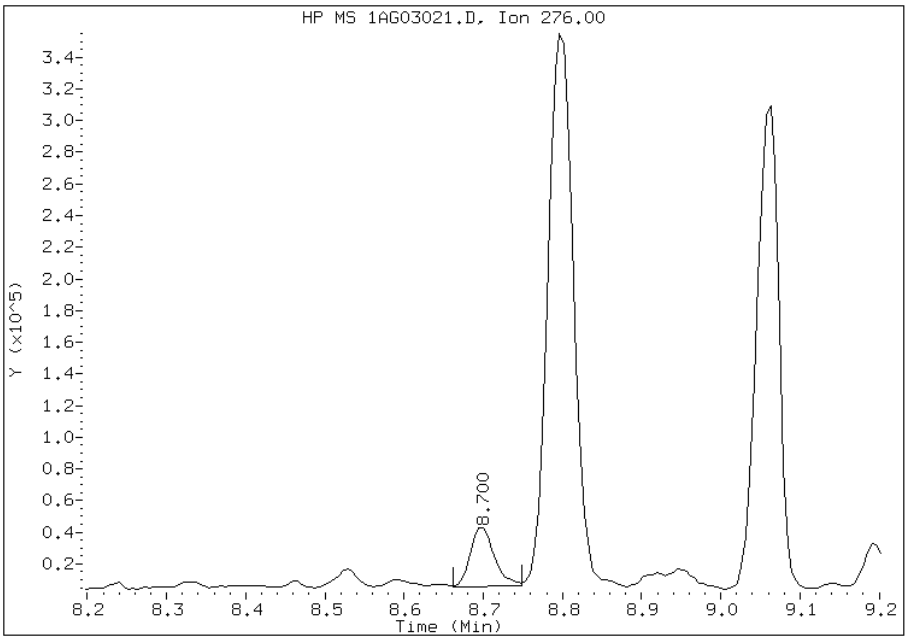
Processing Integration Results

RT: 8.70

Response: 77872

Amount: 1

Conc: 49



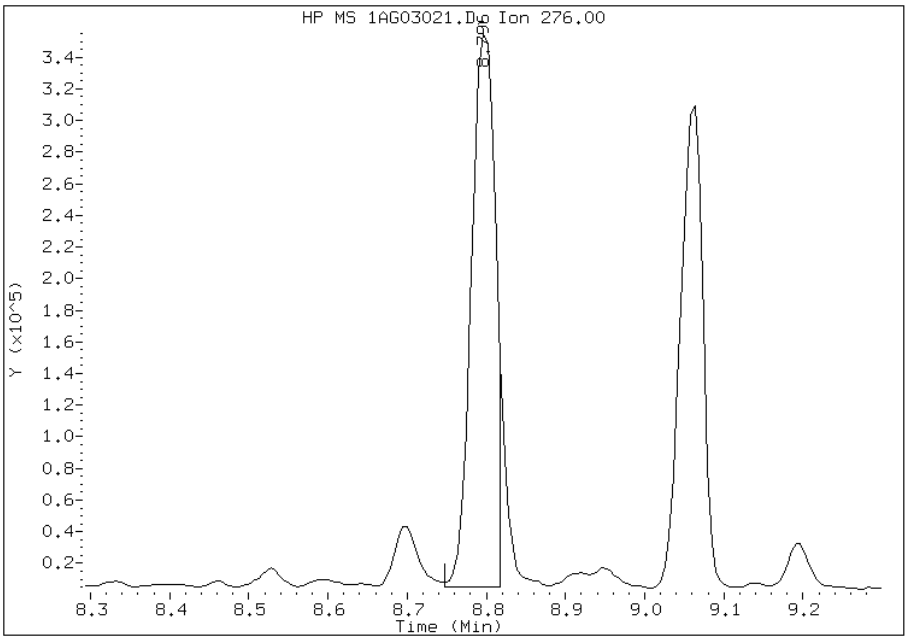
Manual Integration Results

RT: 8.80

Response: 737232

Amount: 7

Conc: 464



Manually Integrated By: cantins
Modification Date: 08-Jul-2013 10:35
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363AB-GS MSD | Lab Sample ID: 680-91719-1 MSD

Matrix: Solid | Lab File ID: 1AG02041.D

Analysis Method: 8270C LL | Date Collected: 06/24/2013 12:45

Extract. Method: 3546 | Date Extracted: 07/01/2013 13:43

Sample wt/vol: 15.02(g) | Date Analyzed: 07/02/2013 21:16

Con. Extract Vol.: 1(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 30.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139030 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	352	J	570	110
208-96-8	Acenaphthylene	363		230	29
120-12-7	Anthracene	451		48	24
56-55-3	Benzo[a]anthracene	591		46	22
50-32-8	Benzo[a]pyrene	577		60	30
205-99-2	Benzo[b]fluoranthene	914		70	35
191-24-2	Benzo[g,h,i]perylene	450		110	25
207-08-9	Benzo[k]fluoranthene	447		46	21
218-01-9	Chrysene	743		52	26
53-70-3	Dibenz(a,h)anthracene	377		110	24
206-44-0	Fluoranthene	731		110	23
86-73-7	Fluorene	380		110	24
193-39-5	Indeno[1,2,3-cd]pyrene	539		110	41
90-12-0	1-Methylnaphthalene	469		230	25
91-57-6	2-Methylnaphthalene	502		230	41
91-20-3	Naphthalene	547		230	25
85-01-8	Phenanthrene	633		46	22
129-00-0	Pyrene	558		110	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	37		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\1AG02041.D
Lab Smp Id: 680-91719-a-1-c msd
Inj Date : 02-JUL-2013 21:16
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-a-1-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070213.b\a-bFASTPAHi-m.m
Meth Date : 02-Jul-2013 11:39 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 41 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.695	2.683	(1.000)	2762366	40.0000	
* 7 Acenaphthene-d10	164	3.731	3.719	(1.000)	1579523	40.0000	
* 11 Phenanthrene-d10	188	4.709	4.697	(1.000)	2383024	40.0000	
$ 15 o-Terphenyl	230	5.002	4.996	(1.062)	45964	0.92731	246.9543
* 19 Chrysene-d12	240	6.771	6.748	(1.000)	3162367	40.0000	
* 24 Perylene-d12	264	7.876	7.849	(1.000)	3749299	40.0000	
2 Naphthalene	128	2.705	2.699	(1.004)	103136	1.42997	380.8169
3 2-Methylnaphthalene	141	3.111	3.105	(1.155)	65349	1.31058	349.0220
4 1-Methylnaphthalene	142	3.165	3.158	(1.174)	73486	1.22491	326.2082
6 Acenaphthylene	152	3.640	3.634	(0.976)	94377	0.94802	252.4678(R)
8 Acenaphthene	154	3.747	3.741	(1.004)	46008	0.91902	244.7457(R)
10 Fluorene	166	4.068	4.061	(1.090)	64304	0.99321	264.5024(R)
12 Phenanthrene	178	4.719	4.713	(1.002)	141530	1.65488	440.7143
13 Anthracene	178	4.757	4.745	(1.010)	101152	1.17744	313.5657

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Fluoranthene	202	5.606	5.594	(1.191)	192128	1.90941	508.4968
17 Pyrene	202	5.777	5.765	(0.853)	186000	1.45887	388.5152
18 Benzo(a)anthracene	228	6.755	6.738	(0.998)	174519	1.54409	411.2087
20 Chrysene	228	6.781	6.764	(1.002)	201150	1.94193	517.1594
21 Benzo(b)fluoranthene	252	7.588	7.571	(0.963)	283382	2.38806	635.9675(H)
22 Benzo(k)fluoranthene	252	7.604	7.592	(0.965)	150696	1.16856	311.2012(H)
23 Benzo(a)pyrene	252	7.818	7.801	(0.993)	167080	1.50654	401.2091
25 Indeno(1,2,3-cd)pyrene	276	8.731	8.698	(1.109)	139418	1.40825	375.0334(M)
26 Dibenzo(a,h)anthracene	278	8.753	8.725	(1.111)	96734	0.98606	262.6004
27 Benzo(g,h,i)perylene	276	8.977	8.949	(1.140)	123958	1.17584	313.1389

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG02041.D

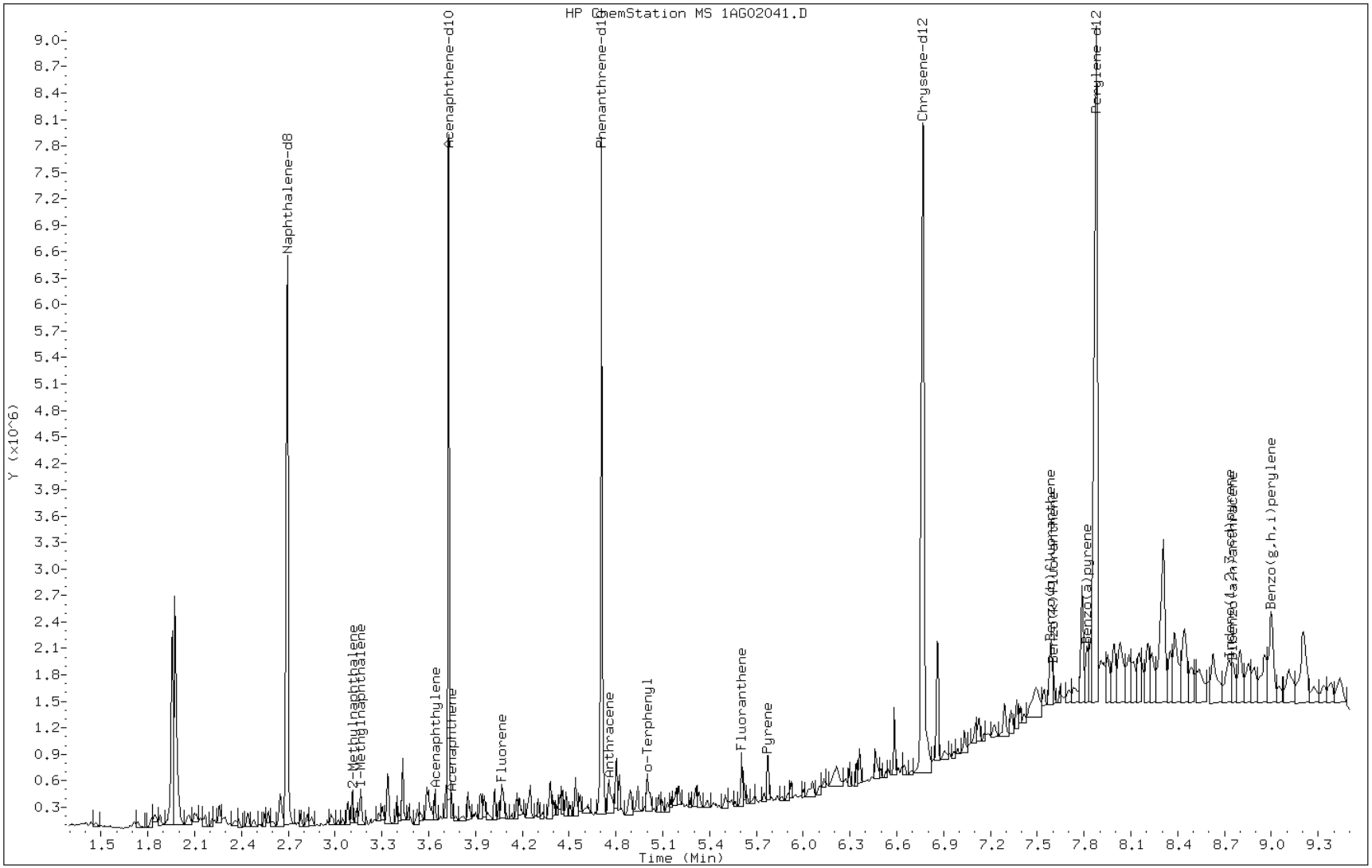
Date: 02-JUL-2013 21:16

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-91719-a-1-c msd

Operator: SCC



Manual Integration Report

Data File: 1AG02041.D
Inj. Date and Time: 02-JUL-2013 21:16
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/03/2013

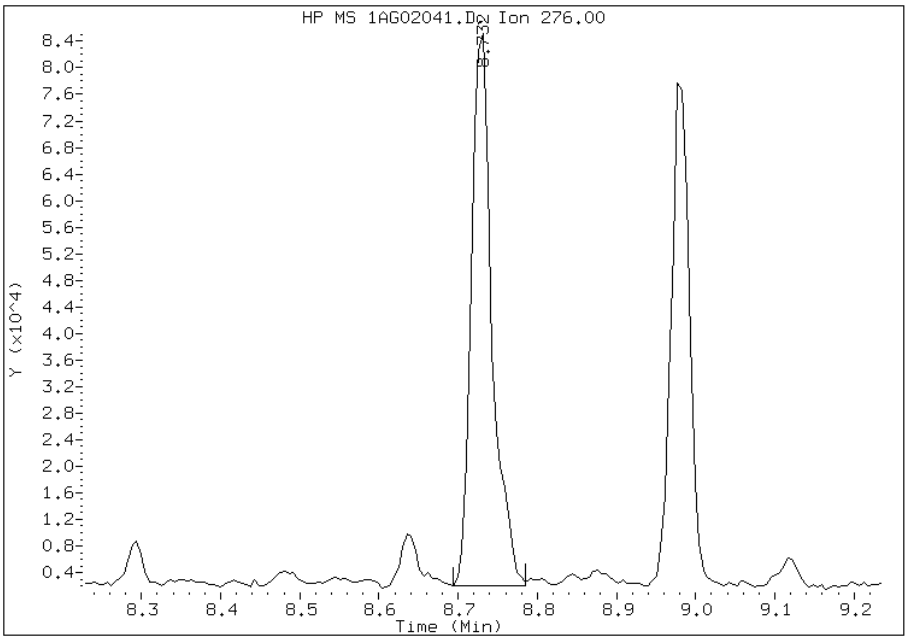
Processing Integration Results

RT: 8.73

Response: 150562

Amount: 2

Conc: 405



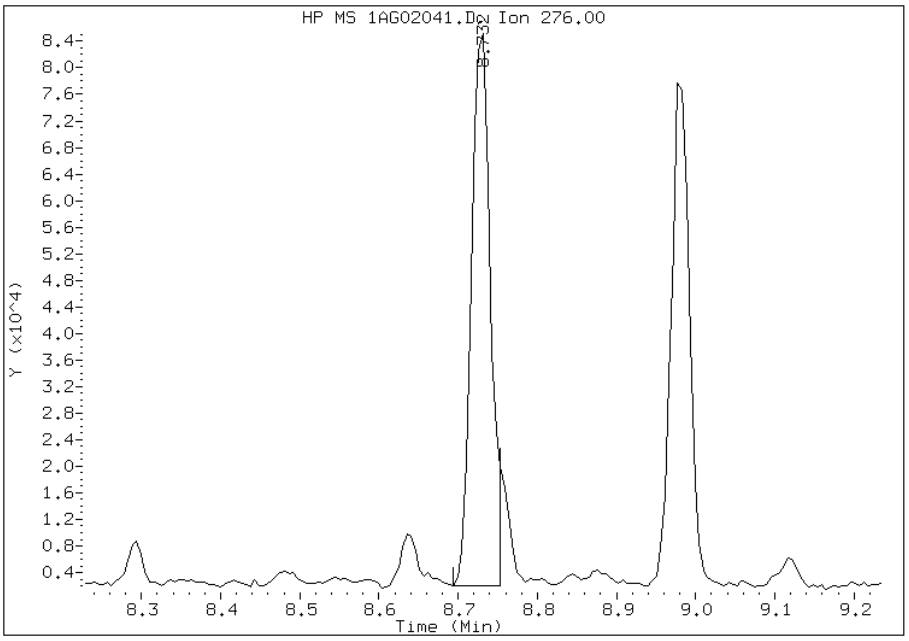
Manual Integration Results

RT: 8.73

Response: 139418

Amount: 1

Conc: 375



Manually Integrated By: cantins
Modification Date: 03-Jul-2013 15:52
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-91719-1

SDG No.: 68091719-1

Client Sample ID: CV1363K-CS MSD | Lab Sample ID: 680-91719-17 MSD

Matrix: Solid | Lab File ID: 1AG03027.D

Analysis Method: 8270C LL | Date Collected: 06/25/2013 08:19

Extract. Method: 3546 | Date Extracted: 07/03/2013 07:27

Sample wt/vol: 15.00(g) | Date Analyzed: 07/03/2013 17:25

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 10.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 139084 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	340		110	22
208-96-8	Acenaphthylene	340		45	5.6
120-12-7	Anthracene	467		9.4	4.7
56-55-3	Benzo[a]anthracene	811		8.9	4.3
50-32-8	Benzo[a]pyrene	773		12	5.8
205-99-2	Benzo[b]fluoranthene	1350		14	6.8
191-24-2	Benzo[g,h,i]perylene	353		22	4.9
207-08-9	Benzo[k]fluoranthene	518		8.9	4.0
218-01-9	Chrysene	925		10	5.0
53-70-3	Dibenz(a,h)anthracene	350		22	4.6
206-44-0	Fluoranthene	1430		22	4.5
86-73-7	Fluorene	335		22	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	449		22	7.9
90-12-0	1-Methylnaphthalene	483		45	4.9
91-57-6	2-Methylnaphthalene	539		45	7.9
91-20-3	Naphthalene	524		45	4.9
85-01-8	Phenanthrene	838		8.9	4.3
129-00-0	Pyrene	798		22	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	52		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\1AG03027.D
Lab Smp Id: 680-91719-A-17-C MS
Inj Date : 03-JUL-2013 17:25
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-91719-A-17-C MSD
Misc Info : 1.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A070313.b\a-bFASTPAHi-m.m
Meth Date : 03-Jul-2013 11:34 cantins Quant Type: ISTD
Cal Date : 11-JUN-2013 16:13 Cal File: 1AF11010.D
Als bottle: 26 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/Ws * 100/(100 - M) * A * B * C * D * GPC * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.701	2.689	(1.000)	3122555	40.0000	
* 7 Acenaphthene-d10	164	3.743	3.725	(1.000)	1908154	40.0000	
* 11 Phenanthrene-d10	188	4.726	4.703	(1.000)	2952351	40.0000	
$ 15 o-Terphenyl	230	5.014	4.996	(1.061)	312082	5.15271	343.5140
* 19 Chrysene-d12	240	6.804	6.759	(1.000)	4293164	40.0000	
* 24 Perylene-d12	264	7.915	7.860	(1.000)	3803744	40.0000	(H)
2 Naphthalene	128	2.712	2.705	(1.004)	574564	7.04734	469.8228
3 2-Methylnaphthalene	141	3.118	3.105	(1.154)	391355	7.24505	483.0033
4 1-Methylnaphthalene	142	3.177	3.164	(1.176)	415244	6.49176	432.7839
6 Acenaphthylene	152	3.652	3.634	(0.976)	609497	4.56936	304.6240
8 Acenaphthene	154	3.759	3.746	(1.004)	315729	4.57253	304.8350
10 Fluorene	166	4.085	4.067	(1.091)	414439	4.50493	300.3283
12 Phenanthrene	178	4.742	4.719	(1.003)	1060306	11.2718	751.4539
13 Anthracene	178	4.774	4.756	(1.010)	688012	6.28276	418.8509

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Fluoranthene	202	5.634	5.600	(1.192)	2003487	19.1727	1278.1808(R)
17 Pyrene	202	5.805	5.771	(0.853)	1857826	10.7336	715.5724
18 Benzo(a)anthracene	228	6.793	6.743	(0.998)	1588868	10.9059	727.0586
20 Chrysene	228	6.820	6.781	(1.002)	1749764	12.4431	829.5400
21 Benzo(b)fluoranthene	252	7.632	7.577	(0.964)	2188954	18.1823	1212.1512(RH)
22 Benzo(k)fluoranthene	252	7.648	7.598	(0.966)	958933	6.96621	464.4140(H)
23 Benzo(a)pyrene	252	7.862	7.812	(0.993)	1170361	10.4020	693.4635(H)
25 Indeno(1,2,3-cd)pyrene	276	8.802	8.715	(1.112)	607132	6.04482	402.9877(MH)
26 Dibenzo(a,h)anthracene	278	8.818	8.741	(1.114)	468890	4.71125	314.0833(H)
27 Benzo(g,h,i)perylene	276	9.064	8.966	(1.145)	508033	4.75010	316.6736(H)

QC Flag Legend

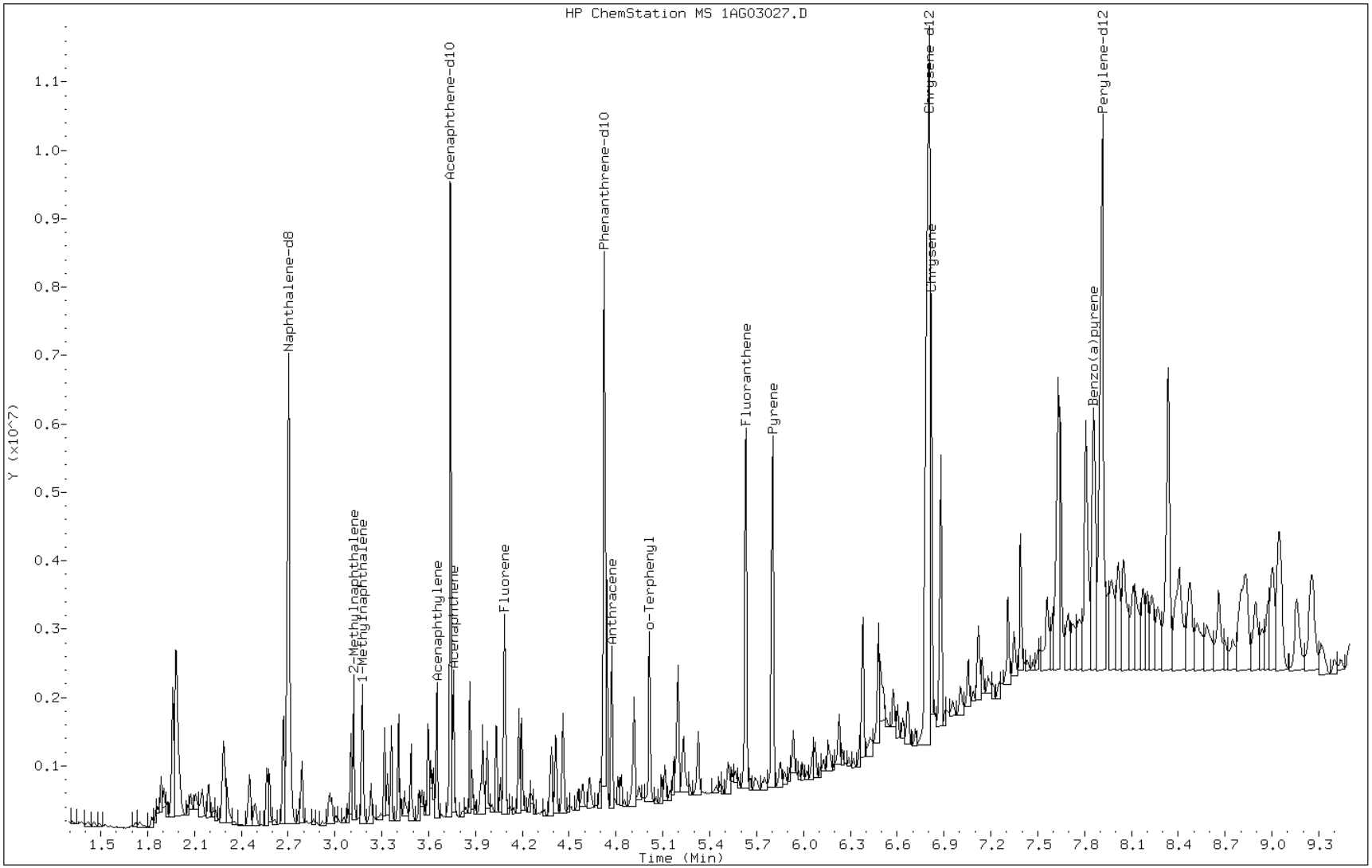
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AG03027.D

Date: 03-JUL-2013 17:25

Client ID: Instrument: BSMA5973.i

Sample Info: 680-91719-A-17-C MSD Operator: SCC



Manual Integration Report

Data File: 1AG03027.D
Inj. Date and Time: 03-JUL-2013 17:25
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 07/05/2013

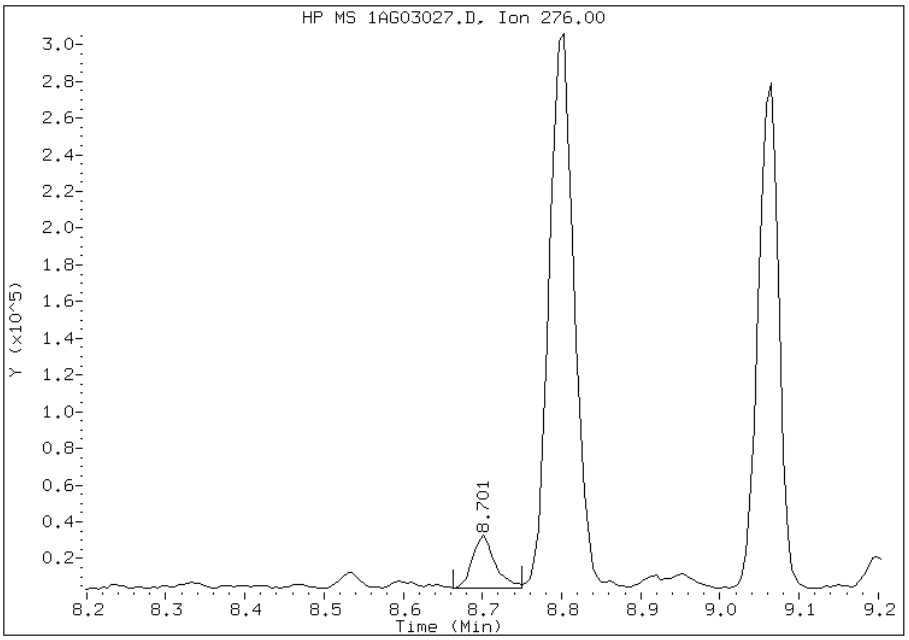
Processing Integration Results

RT: 8.70

Response: 55251

Amount: 1

Conc: 37



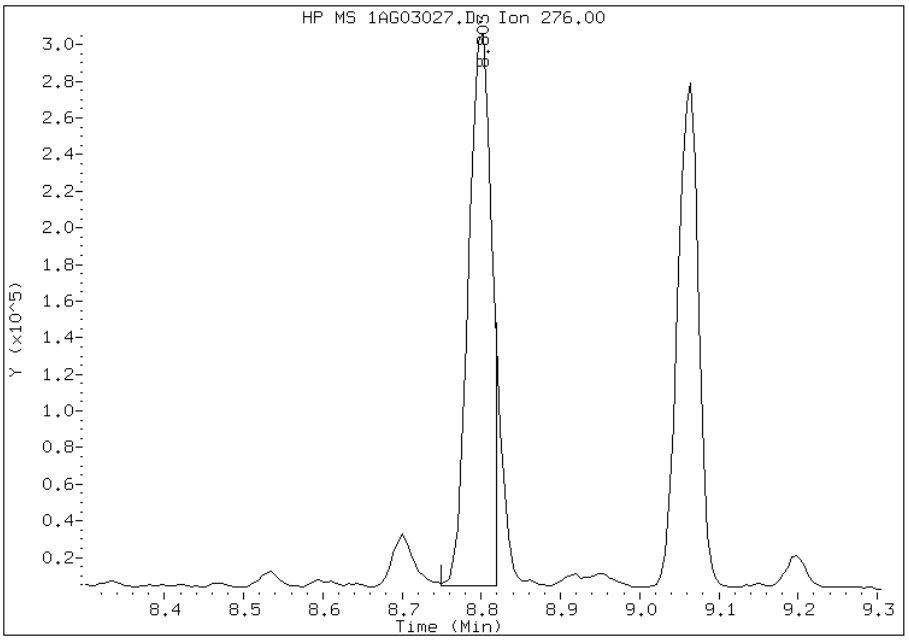
Manual Integration Results

RT: 8.80

Response: 607132

Amount: 6

Conc: 403



Manually Integrated By: cantins
Modification Date: 05-Jul-2013 11:03
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Instrument ID: BSMA5973 Start Date: 06/11/2013 13:30

Analysis Batch Number: 138314 End Date: 06/11/2013 22:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/11/2013 13:30	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 13:45	1		DB-5MS 250(um)
DFTPP 660-138314/2		06/11/2013 14:00	1		DB-5MS 250(um)
DFTPP 660-138314/3		06/11/2013 14:14	1	1AF11003.D	DB-5MS 250(um)
ICIS 660-138314/4		06/11/2013 14:27	1	1AF11004.D	DB-5MS 250(um)
IC 660-138314/5		06/11/2013 14:58	1	1AF11005.D	DB-5MS 250(um)
IC 660-138314/6		06/11/2013 15:13	1	1AF11006.D	DB-5MS 250(um)
IC 660-138314/7		06/11/2013 15:28	1	1AF11007.D	DB-5MS 250(um)
IC 660-138314/8		06/11/2013 15:43	1	1AF11008.D	DB-5MS 250(um)
IC 660-138314/9		06/11/2013 15:58	1	1AF11009.D	DB-5MS 250(um)
IC 660-138314/10		06/11/2013 16:13	1	1AF11010.D	DB-5MS 250(um)
ICV 660-138314/11		06/11/2013 16:33	1	1AF11011.D	DB-5MS 250(um)
ZZZZZ		06/11/2013 16:48	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 17:03	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 17:18	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 17:33	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 17:48	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 18:03	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 18:18	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 18:33	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 18:48	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 19:04	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 19:19	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 19:34	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 19:49	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 20:04	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 20:19	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 20:34	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 20:49	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 21:04	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 21:19	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 21:34	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 21:49	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 22:04	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 22:19	1		DB-5MS 250(um)
ZZZZZ		06/11/2013 22:34	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Instrument ID: BSMA5973 Start Date: 07/02/2013 10:46

Analysis Batch Number: 139030 End Date: 07/02/2013 23:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/02/2013 10:46	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 11:01	1		DB-5MS 250(um)
DFTPP 660-139030/2		07/02/2013 11:16	1	1AG02002.D	DB-5MS 250(um)
CCVIS 660-139030/3		07/02/2013 11:29	1	1AG02003.D	DB-5MS 250(um)
ZZZZZ		07/02/2013 11:44	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 11:59	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 12:14	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 12:30	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 12:44	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 12:59	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 13:15	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 13:45	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 14:00	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 14:15	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 14:30	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 14:45	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 15:00	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 15:15	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 15:30	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 15:45	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 16:00	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 16:15	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 16:30	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 16:45	1		DB-5MS 250(um)
MB 660-138994/1-A		07/02/2013 17:00	1	1AG02024.D	DB-5MS 250(um)
LCS 660-138994/2-A		07/02/2013 17:16	1	1AG02025.D	DB-5MS 250(um)
ZZZZZ		07/02/2013 17:31	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 17:46	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 18:01	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 18:16	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 18:31	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 18:46	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 19:01	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 19:16	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 19:31	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 19:46	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 20:01	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 20:16	1		DB-5MS 250(um)
ZZZZZ		07/02/2013 20:31	1		DB-5MS 250(um)
680-91719-1	CV1363AB-GS	07/02/2013 20:46	4	1AG02039.D	DB-5MS 250(um)
680-91719-1 MS	CV1363AB-GS MS	07/02/2013 21:01	4	1AG02040.D	DB-5MS 250(um)
680-91719-1 MSD	CV1363AB-GS MSD	07/02/2013 21:16	4	1AG02041.D	DB-5MS 250(um)
680-91719-2	CV1363AC-GS	07/02/2013 21:31	1	1AG02042.D	DB-5MS 250(um)
680-91719-3	CV1363AD-GS	07/02/2013 21:46	1	1AG02043.D	DB-5MS 250(um)
680-91719-4	CV1363A-CS	07/02/2013 22:02	4	1AG02044.D	DB-5MS 250(um)

8270C LL

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Instrument ID: BSMA5973 Start Date: 07/02/2013 10:46

Analysis Batch Number: 139030 End Date: 07/02/2013 23:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
680-91719-5	CV1363A-CSD	07/02/2013 22:17	1	1AG02045.D	DB-5MS 250(um)
680-91719-6	CV1363B-CS	07/02/2013 22:32	4	1AG02046.D	DB-5MS 250(um)
680-91719-7	CV1363C-CS	07/02/2013 22:47	1	1AG02047.D	DB-5MS 250(um)
ZZZZZ		07/02/2013 23:02	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Instrument ID: BSMA5973 Start Date: 07/03/2013 10:37

Analysis Batch Number: 139084 End Date: 07/03/2013 19:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/03/2013 10:37	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 10:53	1		DB-5MS 250(um)
DFTPP 660-139084/2		07/03/2013 11:08	1	1AG03002.D	DB-5MS 250(um)
CCVIS 660-139084/3		07/03/2013 11:21	1	1AG03003.D	DB-5MS 250(um)
ZZZZZ		07/03/2013 11:37	1		DB-5MS 250(um)
MB 660-139005/1-A		07/03/2013 11:53	1	1AG03005.D	DB-5MS 250(um)
LCS 660-139005/2-A		07/03/2013 12:08	1	1AG03006.D	DB-5MS 250(um)
ZZZZZ		07/03/2013 12:23	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 12:38	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 12:53	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 13:09	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 13:24	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 13:39	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 13:54	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 14:09	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 14:24	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 14:39	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 14:54	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 15:09	1		DB-5MS 250(um)
ZZZZZ		07/03/2013 15:24	4		DB-5MS 250(um)
680-91719-A-21-B MS		07/03/2013 15:39	1	1AG03020.D	DB-5MS 250(um)
680-91719-A-21-C MSD		07/03/2013 15:54	1	1AG03021.D	DB-5MS 250(um)
MB 660-139049/1-A		07/03/2013 16:09	1	1AG03022.D	DB-5MS 250(um)
LCS 660-139049/2-A		07/03/2013 16:24	1	1AG03023.D	DB-5MS 250(um)
ZZZZZ		07/03/2013 16:40	1		DB-5MS 250(um)
680-91719-17	CV1363K-CS	07/03/2013 16:55	1	1AG03025.D	DB-5MS 250(um)
680-91719-17 MS	CV1363K-CS MS	07/03/2013 17:10	1	1AG03026.D	DB-5MS 250(um)
680-91719-17 MSD	CV1363K-CS MSD	07/03/2013 17:25	1	1AG03027.D	DB-5MS 250(um)
680-91719-8	CV1363D-CS	07/03/2013 17:40	1	1AG03028.D	DB-5MS 250(um)
680-91719-9	CV1363E-CS	07/03/2013 17:55	1	1AG03029.D	DB-5MS 250(um)
680-91719-10	CV1363F-CS	07/03/2013 18:10	1	1AG03030.D	DB-5MS 250(um)
680-91719-11	CV1363G-CS	07/03/2013 18:25	1	1AG03031.D	DB-5MS 250(um)
680-91719-12	CV1363G-CSD	07/03/2013 18:40	1	1AG03032.D	DB-5MS 250(um)
680-91719-13	CV1363H-CS	07/03/2013 18:55	1	1AG03033.D	DB-5MS 250(um)
680-91719-14	CV1363I-CS	07/03/2013 19:10	1	1AG03034.D	DB-5MS 250(um)
680-91719-15	CV1363J-CS	07/03/2013 19:25	1	1AG03035.D	DB-5MS 250(um)
680-91719-16	CV1363J-CSD	07/03/2013 19:40	1	1AG03036.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Instrument ID: BSMA5973 Start Date: 07/07/2013 10:26

Analysis Batch Number: 139145 End Date: 07/07/2013 20:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/07/2013 10:26	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 10:44	1		DB-5MS 250(um)
DFTPP 660-139145/2		07/07/2013 10:59	1		DB-5MS 250(um)
CCVIS 660-139145/3		07/07/2013 11:14	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 13:22	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 13:38	1		DB-5MS 250(um)
DFTPP 660-139145/6		07/07/2013 13:53	1	1AG07005.D	DB-5MS 250(um)
ICIS 660-139145/7		07/07/2013 14:06	1	1AG07006.D	DB-5MS 250(um)
IC 660-139145/8		07/07/2013 14:31	1	1AG07007.D	DB-5MS 250(um)
IC 660-139145/9		07/07/2013 14:46	1	1AG07008.D	DB-5MS 250(um)
IC 660-139145/10		07/07/2013 15:01	1	1AG07009.D	DB-5MS 250(um)
IC 660-139145/11		07/07/2013 15:16	1	1AG07010.D	DB-5MS 250(um)
IC 660-139145/12		07/07/2013 15:31	1	1AG07011.D	DB-5MS 250(um)
IC 660-139145/13		07/07/2013 15:46	1	1AG07012.D	DB-5MS 250(um)
ICV 660-139145/14		07/07/2013 16:01	1	1AG07013.D	DB-5MS 250(um)
ZZZZZ		07/07/2013 16:54	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 17:09	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 17:23	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 17:39	1		DB-5MS 250(um)
680-91719-18	CV1363L-CS	07/07/2013 17:54	1	1AG07018.D	DB-5MS 250(um)
680-91719-19	CV1363M-CS	07/07/2013 18:09	1	1AG07019.D	DB-5MS 250(um)
680-91719-20	CV1363N-CS	07/07/2013 18:24	1	1AG07020.D	DB-5MS 250(um)
ZZZZZ		07/07/2013 18:39	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 18:54	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 19:09	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 19:24	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 19:39	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 19:54	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 20:09	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 20:24	1		DB-5MS 250(um)
ZZZZZ		07/07/2013 20:39	1		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Batch Number: 138994 Batch Start Date: 07/01/13 13:43 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 07/01/13 17:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00024	EXLLSURINT 00184		
MB 660-138994/1		3546, 8270C LL		14.90 g	1 mL		1 mL		
LCS 660-138994/2		3546, 8270C LL		14.92 g	1 mL	1 mL	1 mL		
680-91719-A-1	CV1363AB-GS	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-91719-A-1 MS	CV1363AB-GS	3546, 8270C LL	T	15.02 g	1 mL	1 mL	1 mL		
680-91719-A-1 MSD	CV1363AB-GS	3546, 8270C LL	T	15.02 g	1 mL	1 mL	1 mL		
680-91719-A-2	CV1363AC-GS	3546, 8270C LL	T	15.18 g	1 mL		1 mL		
680-91719-A-3	CV1363AD-GS	3546, 8270C LL	T	15.07 g	1 mL		1 mL		
680-91719-A-4	CV1363A-CS	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-91719-A-5	CV1363A-CSD	3546, 8270C LL	T	15.16 g	1 mL		1 mL		
680-91719-A-6	CV1363B-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-91719-A-7	CV1363C-CS	3546, 8270C LL	T	14.92 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Batch Number: 138994 Batch Start Date: 07/01/13 13:43 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 07/01/13 17:25

Batch Notes	
Acetone Lot #	EX-ACETON BOT 53
Balance ID	B001
Batch Comment	RUSH
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL 57
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 57
MeCl2/Acetone Lot #	DCM/ACETON 96
Microwave Start Time	15:00 7/1/13
Microwave Stop Time	15:35 7/1/13
Na2SO4 Lot Number	EX-NA2S04A 69
Ottawa Sand Lot #	EX-OTTOWA SAND 22
Person's name who did the prep	SAUREL
SOP Number	TP-EX014
Person who witnessed spiking	RYAN
Surrogate Lot Number	EXLLSURINT 184
Water Bath ID	TURBOVAP2 #1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Batch Number: 139005 Batch Start Date: 07/02/13 07:50 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 07/02/13 17:38

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00024	EXLLSURINT 00184		
MB 660-139005/1		3546, 8270C LL		15.02 g	1 mL		1 mL		
LCS 660-139005/2		3546, 8270C LL		14.98 g	1 mL	1 mL	1 mL		
680-91719-A-8	CV1363D-CS	3546, 8270C LL	T	15.06 g	1 mL		1 mL		
680-91719-A-9	CV1363E-CS	3546, 8270C LL	T	14.99 g	1 mL		1 mL		
680-91719-A-10	CV1363F-CS	3546, 8270C LL	T	15.04 g	1 mL		1 mL		
680-91719-A-11	CV1363G-CS	3546, 8270C LL	T	15.29 g	1 mL		1 mL		
680-91719-A-12	CV1363G-CSD	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-91719-A-13	CV1363H-CS	3546, 8270C LL	T	15.03 g	1 mL		1 mL		
680-91719-A-14	CV1363I-CS	3546, 8270C LL	T	15.11 g	1 mL		1 mL		
680-91719-A-15	CV1363J-CS	3546, 8270C LL	T	14.91 g	1 mL		1 mL		
680-91719-A-16	CV1363J-CSD	3546, 8270C LL	T	15.20 g	1 mL		1 mL		
680-91719-A-21 MS		3546, 8270C LL	T	15.33 g	1 mL	1 mL	1 mL		
680-91719-A-21 MSD		3546, 8270C LL	T	15.04 g	1 mL	1 mL	1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Batch Number: 139005 Batch Start Date: 07/02/13 07:50 Batch Analyst: Nolan, Ryan

Batch Method: 3546 Batch End Date: 07/02/13 17:38

Batch Notes	
Acetone Lot #	ID:EX-ACETON BOT_00053(1551084)
Balance ID	B001
Person's name who did the concentration	RYAN NOLAN
Exchange Solvent Lot #	ex-mc cycl 57
Exchange Solvent Name	dcm
Final Concentrator Volume	1 mL
MeCL2 Lot #	ID:EX-MC CYCL_00058(1560904)
MeCl2/Acetone Lot #	ID:DCM/ACETON_00097(1576428)
Microwave Start Time	10:45 7/2/13
Microwave Stop Time	11:20 7/2/13
MS Lot Number	91719-21
Na2SO4 Lot Number	ID:EX-NA2SO4A_00069(1573471)
Ottawa Sand Lot #	ID:OTTAWA SAND_00022(1576429)
Person's name who did the prep	RYAN NOLAN
SOP Number	TP014
Person who witnessed spiking	SAUREL CEROME
Surrogate Lot Number	ID:EXLLSURINT_00184(1569137)
Water Bath ID	TURBO VAP # 1-4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Batch Number: 139049 Batch Start Date: 07/03/13 07:27 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 07/03/13 16:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00024	EXLLSURINT 00184		
MB 660-139049/1		3546, 8270C LL		14.96 g	1 mL		1 mL		
LCS 660-139049/2		3546, 8270C LL		15.15 g	1 mL	1 mL	1 mL		
680-91719-A-17	CV1363K-CS	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-91719-A-17 MS	CV1363K-CS	3546, 8270C LL	T	15.00 g	1 mL	1 mL	1 mL		
680-91719-A-17 MSD	CV1363K-CS	3546, 8270C LL	T	15.00 g	1 mL	1 mL	1 mL		
680-91719-A-18	CV1363L-CS	3546, 8270C LL	T	15.11 g	1 mL		1 mL		
680-91719-A-19	CV1363M-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-91719-A-20	CV1363N-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Batch Number: 139049 Batch Start Date: 07/03/13 07:27 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 07/03/13 16:50

Batch Notes	
Acetone Lot #	EX-ACETON BOT 53
Balance ID	B001
Batch Comment	RUSH
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 57
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 57
MeCl2/Acetone Lot #	DCM/ACETON 97
Microwave Start Time	8:00 7/3/13
Microwave Stop Time	8:35 7/3/13
Na2SO4 Lot Number	EX-NA2S04A 70
Ottawa Sand Lot #	EX-OTTOWA SAND 22
Person's name who did the prep	SAUREL/RYAN
SOP Number	TP-EX014
Person who witnessed spiking	AG
Surrogate Lot Number	EXLLSURINT 184
Water Bath ID	TURBOVAP2 #1-3
Water Bath Temperature	40 C for all

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-91719-1

SDG No.: 68091719-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV1363AB-GS	680-91719-1
CV1363AC-GS	680-91719-2
CV1363AD-GS	680-91719-3
CV1363A-CS	680-91719-4
CV1363A-CSD	680-91719-5
CV1363B-CS	680-91719-6
CV1363C-CS	680-91719-7
CV1363D-CS	680-91719-8
CV1363E-CS	680-91719-9
CV1363F-CS	680-91719-10
CV1363G-CS	680-91719-11
CV1363G-CSD	680-91719-12
CV1363H-CS	680-91719-13
CV1363I-CS	680-91719-14
CV1363J-CS	680-91719-15
CV1363J-CSD	680-91719-16
CV1363K-CS	680-91719-17
CV1363L-CS	680-91719-18
CV1363M-CS	680-91719-19
CV1363N-CS	680-91719-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-91719-1

SDG Number: 68091719-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-91719-1

SDG Number: 68091719-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 06/28/2013 06:28 End Date: 06/28/2013 07:03

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
ZZZZZZ			06:28																				
ZZZZZZ			06:28																				
ZZZZZZ			06:28																				
ZZZZZZ			06:28																				
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ZZZZZZ			06:28																				
ZZZZZZ			06:28																				
ZZZZZZ			06:28																				
ZZZZZZ			06:28																				
680-91719-1	1	T	06:28	X																			
680-91719-1 MS	1	T	06:28	X																			
680-91719-1 MSD	1	T	06:28	X																			
680-91719-2	1	T	06:28	X																			
680-91719-3	1	T	06:28	X																			
ZZZZZZ			06:28																				
680-91719-A-21 MS	1	T	06:28	X																			
680-91719-A-21 MSD	1	T	06:28	X																			
680-91719-5	1	T	06:28	X																			
680-91719-6	1	T	06:28	X																			
680-91719-8	1	T	06:28	X																			
680-91719-7	1	T	07:03	X																			
680-91719-4	1	T	07:03	X																			
680-91719-9	1	T	07:03	X																			
680-91719-10	1	T	07:03	X																			
680-91719-11	1	T	07:03	X																			
680-91719-15	1	T	07:03	X																			
ZZZZZZ			07:03																				
680-91719-12	1	T	07:03	X																			
680-91719-16	1	T	07:03	X																			
680-91719-13	1	T	07:03	X																			
680-91719-17	1	T	07:03	X																			
680-91719-18	1	T	07:03	X																			
680-91719-14	1	T	07:03	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 06/28/2013 06:28 End Date: 06/28/2013 07:03

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
680-91719-19	1	T	07:03	X																			
680-91719-20	1	T	07:03	X																			
ZZZZZZ			07:03																				
ZZZZZZ			07:03																				
ZZZZZZ			07:03																				
ZZZZZZ			07:03																				
ZZZZZZ			07:03																				

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Batch Number: 138912 Batch Start Date: 06/28/13 06:28 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
680-91719-A-1	CV1363AB-GS	Moisture	T	19	0 g	4.70 g	3.27 g		
680-91719-A-1 MS	CV1363AB-GS	Moisture	T	19	0 g	4.70 g	3.27 g		
680-91719-A-1 MSD	CV1363AB-GS	Moisture	T	19	0 g	4.70 g	3.27 g		
680-91719-A-2	CV1363AC-GS	Moisture	T	20	0 g	4.89 g	3.94 g		
680-91719-A-3	CV1363AD-GS	Moisture	T	21	0 g	5.05 g	3.24 g		
680-91719-A-21 MS		Moisture	T	22	0 g	4.75 g	4.11 g		
680-91719-A-21 MSD		Moisture	T	22	0 g	4.75 g	4.11 g		
680-91719-A-5	CV1363A-CSD	Moisture	T	23	0 g	4.61 g	3.88 g		
680-91719-A-6	CV1363B-CS	Moisture	T	24	0 g	4.84 g	4.08 g		
680-91719-A-8	CV1363D-CS	Moisture	T	25	0 g	4.38 g	3.94 g		
680-91719-A-7	CV1363C-CS	Moisture	T	26	0 g	5.21 g	4.59 g		
680-91719-A-4	CV1363A-CS	Moisture	T	27	0 g	4.53 g	3.75 g		
680-91719-A-9	CV1363E-CS	Moisture	T	28	0 g	4.72 g	4.09 g		
680-91719-A-10	CV1363F-CS	Moisture	T	29	0 g	4.93 g	4.22 g		
680-91719-A-11	CV1363G-CS	Moisture	T	30	0 g	4.84 g	4.23 g		
680-91719-A-15	CV1363J-CS	Moisture	T	31	0 g	4.57 g	3.90 g		
680-91719-A-12	CV1363G-CSD	Moisture	T	33	0 g	4.44 g	3.74 g		
680-91719-A-16	CV1363J-CSD	Moisture	T	34	0 g	4.73 g	4.03 g		
680-91719-A-13	CV1363H-CS	Moisture	T	35	0 g	4.67 g	3.88 g		
680-91719-A-17	CV1363K-CS	Moisture	T	36	0 g	4.45 g	3.99 g		
680-91719-A-18	CV1363L-CS	Moisture	T	37	0 g	4.49 g	3.89 g		
680-91719-A-14	CV1363I-CS	Moisture	T	38	0 g	4.68 g	3.95 g		
680-91719-A-19	CV1363M-CS	Moisture	T	39	0 g	4.90 g	4.18 g		
680-91719-A-20	CV1363N-CS	Moisture	T	40	0 g	4.57 g	4.14 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	6.28.13

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-91719-1

SDG No.: 68091719-1

Batch Number: 138912 Batch Start Date: 06/28/13 06:28 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Serial Number 64276

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location: Test America Tampa
Phone: 680-91719
Fax:

PROJECT REFERENCE: 35th Ave ~~2005143 - 35~~ Remed	PROJECT NO.: 2005146-BSG	PROJECT LOCATION (STATE): AL	PAGE 1 OF 3
TAL (LAB) PROJECT MANAGER: Lisa Haveg	P.O. NUMBER:	CONTRACT NO.:	STANDARD REPORT DELIVERY ○ DATE DUE ____
CLIENT (SITE) PM: R Henderson	CLIENT PHONE: 678-355-5550	CLIENT FAX:	
CLIENT NAME: OTIE	CLIENT E-MAIL: LKrebs@otie.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE ____
CLIENT ADDRESS: 1220 Kennestone Circle Ste 106 Marietta, Ga 30066			
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

PRESERVATIVE: WPAH; RCRA 8 Metals

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	WPAH	RCRA 8 Metals	REMARKS
6-24-13	1245	CV1363AB-GS	G		X			X	X	
	1350	CV1363AC-GS	G		X			X		
	1405	CV1363AD-GS	G		X			X		
	1300	CV1363A-CS	C		X			X		
	1300	CV1363A-CSD	C		X			X		
	1301	CV1363B-CS	C		X			X		
	1309	CV1363C-CS	C		X			X		
	1328	CV1363D-CS	C		X			X		
	1356	CV1363E-CS	C		X			X		
	1407	CV1363F-CS	C		X			X	X	
	1424	CV1363G-CS	C		X			X		
	1424	CV1363G-CSD	C		X			X		

680-91719-01 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	6-24-13	15:03	[signature]	6/26/13	1600			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[signature]	6/26/13	0835						

LABORATORY USE ONLY 4.6°C

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	06/27/13	0805	YES ○ NO ○		680-91719	5.7°C CU.07

TAL8240-680 (1008)

Serial Number 64277

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location: Test Am. Tampa

Phone: 680-91719
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	2005146-1356	AL

PAGE 2 OF 3

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
R. Henderson	678-355-5550	

CLIENT NAME	CLIENT E-MAIL
OTIE	LKrebs@otie.com

CLIENT ADDRESS: 1220 Kennesaw Circle Ste 106, Marietta, Ga 30066

COMPANY CONTRACTING THIS WORK (if applicable):

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____

REQUIRED ANALYSIS: L PAH; 8260B Metals

PRESERVATIVE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	L PAH	8260B Metals									REMARKS
6-25-13	0755	CV1363H-CS	C					X										
	0751	CV1363I-CS	C					X	X									
	0803	CV1363J-CS	C					X										
	0803	CV1363J-CSD	C					X										
	0819	CV1363K-CS	C					X										
	0848	CV1363L-CS	C					X										
	0920	CV1363M-CS	C					X										
	0935	CV1363N-CS	C					X										
	0925	CV1363O-CS	C					X										
	0930	CV1363P-CS	C					X										
	0959	CV1363Q-CS	C					X										
	1003	CV1363R-CS	C					X										

680-91719-02 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	6-25-13	15:03	[signature]	6/26/13	1600			

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[signature]	6/26/13	0835						

LABORATORY USE ONLY

4.6°C

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	06/27/13	0805	YES ○ NO ○		680-91719	

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-91719-1
SDG Number: 68091719-1

Login Number: 91719
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	False	-35 Sample: rec'd but not listed on COC
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-91719-1
SDG Number: 68091719-1

Login Number: 91719
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 06/26/13 12:57 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	